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TOWN OF READING

MASSACHUSETTS

THE ANNUAL REPORT

For the Financial Year
Ended December 31st

1931



TOWN OF READING

ANNUAL REPORT

FOR THE

FINANCIAL YEAR ENDED

DECEMBER 31

1931

The Reading Chronicle Press
Reading, Mass.



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TOWN OFFICERS 1931-1932

Elected and Appointed

Board of Selectmen

| | | |
|-------------------------------|--------------|------|
| W. HOMER MORRISON, Chairman | Term expires | 1932 |
| MOLLIE A. SWEETSER, Secretary | " " | 1933 |
| ALBERT N. LEMAN | " " | 1934 |
| LEON G. BENT, Clerk | " | |

Board of Public Welfare

| | | |
|----------------------------|-------------------------|------|
| MARY F. DANIEL, Chairman | Term expires | 1932 |
| MYRTLE L. LEMAN, Secretary | " " | 1933 |
| GEORGE H. SIDEBOTTOM | " " | 1934 |
| LEON G. BENT, Clerk | HELEN A. BROWN, Visitor | |
| ANNIE E. PATRICK, Visitor | | |
| Old Age Assistance | | |

Board of Assessors

| | | |
|------------------------------|--------------|------|
| GEORGE E. HORROCKS, Chairman | Term expires | 1932 |
| ALVAH W. CLARK, Secretary | " " | 1933 |
| ARTHUR S. COOK | " " | 1934 |

Town Clerk

MILLARD F. CHARLES

Moderator

CHARLES P. HOWARD

Collector of Taxes *

GRACE V. VIAL

Town Counsel

SAMUEL H. DAVIS

Treasurer

PRESTON F. NICHOLS

Town Accountant

LEON G. BENT

Board of Public Works

| | | |
|-------------------------------------|--------------|------|
| MARTIN B. HARTSHORN, Chairman | Term expires | 1934 |
| FRANK M. MERRILL, Secretary | " " | 1933 |
| ROBERT E. FOWLE | " " | 1933 |
| WILLIAM T. FAIRCLOUGH | " " | 1932 |
| HAROLD W. PUTNAM | " " | 1934 |
| * ALEXANDER BIRNIE, Superintendent. | | |

Board of Health

| | | |
|-------------------------------------|--------------|------|
| EDWARD M. HALLIGAN, M. D., Chairman | Term expires | 1934 |
| CHRISTINE F. ATKINSON, Secretary | " " | 1933 |
| GEORGE W. S. IDE | " " | 1932 |

Finance Committee

| | | | |
|-------------------------------|--------------|---------|------|
| ROBERT B. MOUNT, Chairman | Term expires | Mar. 31 | 1933 |
| PEARL M. BURGESS | " " | " " | 1932 |
| WILLIAM A. HALEY | " " | " " | 1932 |
| J. WARREN KILLAM, JR. | " " | " " | 1932 |
| ORLANDO C. MOYER | " " | " " | 1932 |
| EDWARD J. SCOTT | " " | " " | 1932 |
| MILES C. HIGGINS | " " | " " | 1933 |
| JAMES W. FAIRCHILD | " " | " " | 1933 |
| HOWARD P. KNOX | " " | " " | 1933 |
| MARGARET S. CANTY | " " | " " | 1933 |
| EDWARD W. BRIGGS | " " | " " | 1934 |
| WILLIAM A. CONNELLY, D. M. D. | " " | " " | 1934 |
| JOHN L. DEVANEY | " " | " " | 1934 |
| MARGARET R. ELLISON | " " | " " | 1934 |
| HARRY G. PORCH | " " | " " | 1934 |
| LEON G. BENT, Clerk | | | |

School Committee

| | | |
|------------------------------|--------------|------|
| ARTHUR W. COOLIDGE, Chairman | Term expires | 1934 |
| LOGAN R. DICKIE | " " | 1932 |
| *HAROLD A. CARNES, D. M. D. | " " | 1932 |
| LAURA S. GORDON | " " | 1933 |
| CARL M. SPENCER | " " | 1933 |
| HELEN B. HARTSHORN | " " | 1934 |
| †FRANK D. TANNER | " " | 1932 |

Superintendent of Schools

ADELBERT L. SAFFORD

Attendance Officer

ABIGAIL H. MINGO

School Nurse

MABEL M. BROWN, R. N.

School Physician

CHARLES R. HENDERSON, M. D.

Municipal Light Board

| | | |
|-----------------------------|--------------|------|
| HENRY R. JOHNSON, Chairman | Term expires | 1932 |
| HERBERT G. EVANS, Secretary | " " | 1933 |
| HARRY P. BAKER | " " | 1934 |

ARTHUR G. SIAS, Manager Municipal Light Plant.

*Resigned.

†Elected to fill vacancy.

Board of Cemetery Trustees

| | | |
|--------------------------------------|--------------|------|
| PHILIP H. TIRRELL, Chairman | Term expires | 1933 |
| CLARENCE C. WHITE, Secretary | " " | 1932 |
| WINTHROP D. PARKER | " " | 1932 |
| HAROLD F. DAVIS | " " | 1933 |
| FRANK LEE EDGERLEY | " " | 1934 |
| FRED L. NUTTER | " " | 1934 |
| WILLIAM P. PIERPONT, Superintendent. | | |

Board of Registrars

| | | |
|-----------------------------|--------------|------|
| ROBERT S. RALSTON, Chairman | Term expires | 1932 |
| OWEN McKENNEY | " " | 1933 |
| WALTER S. PRENTISS | " " | 1934 |
| MILLARD F. CHARLES, Clerk. | | |

Planning Board

| | | |
|------------------------------|--------------|------|
| GEORGE W. G. POOLE, Chairman | Term expires | 1932 |
| CLARK S. ROBINSON, Secretary | " " | 1934 |
| LOUIS M. LYONS | " " | 1932 |
| McPHERSON DANIEL | " " | 1933 |
| WINTHROP D. PARKER | " " | 1934 |

Trustees of Public Library

| | | |
|-------------------------------|--------------|------|
| ARTHUR N. MANSFIELD, Chairman | Term expires | 1933 |
| RALPH S. KENEELY, Secretary | " " | 1934 |
| IDA C. LUCAS | " " | 1932 |
| HARRY J. BARCLAY | " " | 1932 |
| JENNY F. WEEKS | " " | 1933 |
| JESSE W. MORTON | " " | 1934 |

Board of Appeal

| | |
|----------------------------|---------------------------|
| HENRY Q. MILLETT, Chairman | FRED L. NUTTER, Secretary |
| CHARLES A. DAMON | |

Commissioners of Trust Funds

| | | |
|--|--------------|------|
| PHILIP H. TIRRELL, Chairman | Term expires | 1935 |
| CLARENCE C. WHITE | " " | 1933 |
| H. RAYMOND JOHNSON | " " | 1937 |
| Town Treasurer and Chairman Selectmen, members ex officiis | | |

Reading Safety Council

| | |
|----------------------------------|---------------------|
| GLADYS S. N. FAIRCHILD, Chairman | EDWARD G. QUINLAN |
| FLORENCE H. LIBBY | JEREMIAH CULLINANE |
| ALVAH W. CLARK | ADELBERT L. SAFFORD |
| ERNEST A. L. HILL | ALEXANDER BIRNIE |

Police Department

JEREMIAH CULLINANE, Chief

FRANCIS T. SLACK, Sergeant

TIMOTHY J. CULLINANE

OSCAR H. LOW

FRANK R. FISHER

GORDON G. MacINTIRE

FRANCIS L. JOHNSON

HAROLD W. O'BRIEN

EARL R. HUTCHINSON

WILLIAM F. O'BRIEN

JAMES H. LAWLER

THOMAS E. WALL

PATRICK J. LONG

THOMAS J. FITZPATRICK

Fire Department

ORVILLE O. ORDWAY, Chief

JOHN J. O'BRIEN, Deputy Chief

HUGH L. EAMES, Capt.

WM. H. Van HORN, Lieut.

FRANK L. MCKENNEY

CHARLES H. HESELTON

GEORGE W. GOODRIDGE

ALBERT C. MAXWELL

HERBERT L. ROBERTSON

Superintendent of Fire Alarm**Inspector of Wires**

HUGH L. EAMES

Forest Warden

ORVILLE O. ORDWAY

Deputy Forest Warden

HENRY M. DONEGAN

Constables

LEON G. BENT

J. WINTHROP SIAS

Sealer Weights and Measures

CARL M. SMITH

Inspector Milk and Food

CARL M. SMITH

Inspector of Plumbing and Gas Inspector

DAVID TAGGART

Inspector of Animals

CALVERT H. PLAYDON, M. D. V.

Inspector of Slaughtering

WILLIAM C. SMITH

Inspector of Buildings

A. RUSSELL BARNES

Superintendent of Moth Work and Tree Warden

HENRY M. DONEGAN

Burial Agent, Soldiers and Sailors

ALFRED E. GOODWIN

Custodian Soldiers' Graves

HARRY A. TURNER

Measurers of Wood and Bark

| | |
|-------------------|----------------------|
| THOMAS E. BROGAN | PERCY N. SWEETSER |
| BURTON K. SYMONDS | WARREN M. WHITEHOUSE |

Measurers of Lumber

| | |
|----------------------|--------------------|
| ORA L. MILBURY | BURTON K. SYMONDS |
| WARREN M. WHITEHOUSE | WILLIAM R. ZWICKER |
| EDWARD B. EAMES | ROLLAND L. PERRY |

Weighers of Coal and Hay

| | |
|-----------------------|-------------------|
| W. IRVING BANCROFT | THOMAS E. BROGAN |
| BERTHA D. MacLELLAN | MABEL L. MacKAY |
| WENDELL B. NEWELL | PERCY N. SWEETSER |
| CHARLES W. LEE | WILLIAM D. WARD |
| KATHERINE L. SWEETSER | RUTH CLIMO |
| CHARLES H. SWEETSER | |

Field Drivers

| | |
|---------------------|------------------|
| WILLARD A. BANCROFT | ADOLPH S. LARSEN |
| ROLLAND L. PERRY | |

Fence Viewers

| | |
|-------------------|------------------|
| CARL B. SAWYER | ALBERT E. TEMPLE |
| WENDELL B. NEWELL | |

Director of Agriculture and Home Economics

(Chapter 128, Section 41, General Laws)

ROLLAND L. PERRY

Committee on Town Forests

| | |
|-----------------------------|-------------------|
| LELAND W. KINGMAN, Chairman | ORVILLE O. ORDWAY |
| HENRY M. DONEGAN | |

TOWN OF READING

Population 1930 Census: 9747.

Registered Voters 1931: Men 2236, Women 2240, Total 4476.

Fifth Congressional District.

Sixth Councillor District.

Seventh Middlesex Senatorial District.

Eighteenth Middlesex Representative District.

Representative in Congress, 5th District, Edith Nourse Rogers, Lowell.

Councillor 6th District, Joseph O. Knox, Medford.

Senator 7th Middlesex District, Joseph R. Cotton, Lexington.

Representatives 18th Middlesex District, Norman L. Duncan and Fred H. Bowser, Jr., Woburn.

LIST OF JURORS FOR 1931-1932

Prepared by the Board of Selectmen

| | |
|-------------------------------------|-------------------|
| Abbott, Edwin K., Clerk | 12 Bancroft Ave. |
| Abbott, George W., Ass't Manager | 20 Mineral St. |
| Alger, C. Irving, Salesman | 78 Woburn St. |
| Anderson, John L., Electrician | 64 Federal St. |
| Anderson, Walter J., Manager | 63 Summer Ave. |
| Badger, William S., Clerk | 4 Middlesex Ave. |
| Barclay, Harry J., Accountant | Vale Rd. |
| Barnes, George E., Operator | 63 Green St. |
| Bedley, Robert A., Salesman | 75 Howard St. |
| Bell, J. Angus, Voicer | Hanscom Ave. |
| Benjamin, William H., Jr., Salesman | 12 Berkeley St. |
| Berle, Theodore P., Insurance | 126 Ash St. |
| Blake, Willie R., Pressman | 27 Pleasant St. |
| Bolton, John A., Voicer | 14 Union St. |
| Brackett, Herbert A., Merchant | 176 Summer Ave. |
| Brand, Mahlon E., Real Estate | 103 Woburn St. |
| Briggs, Edw. W., Treasurer | 40 John St. |
| Brooks, George Clark, Salesman | 48 Hillcrest Rd. |
| Burchard, Edgar R., Express Agent | 16 Middlesex Ave. |
| Burgess, Pearl M., Merchant | 6 Dudley St. |
| Burnham, Vaughan F., Salesman | 65 Highland St. |
| Cahoon, Benjamin B., Telephone Man | 94 Oak St. |
| Carleton, Philemon P., Clerk | 81 Prospect St. |
| Carroll, Granger, Carpenter | 13 John St. |
| Chapin, Earle H., Salesman | 122 High St. |
| Christensen, Andrew, Florist | Sunnyside Ave. |
| Charles, Warren F., Clerk | 20 Pleasant St. |
| Clapp, Ernest E., Electrician | 15 Highland St. |

| | |
|---|---------------------|
| Clark, Edward H., Mechanical Engineer | 56 Summer Ave. |
| Clough, George H., Manufacturer | 8 Perkins Ave. |
| Coan, Donald W., Claim Adjuster | 7 Oak St. |
| Colley, George A., Merchant | 28 Prospect St. |
| Corbett, Howard L., Telephone | 36 Ash St. |
| Crafts, Clinton W., Merchant | 177 Summer Ave. |
| Cullinane, Charles M., Trucking | 119 Washington St. |
| Cummings, Joseph P., N. E. T. & T. Co. | 4 Grant St. |
| Currell, Harold B., Contractor | 5 Woodward Ave. |
| Cutcliffe, Frank, Millhand | 22 Pleasant St. |
| Danforth, Percy R., Druggist | 17 Middlesex Ave. |
| Davis, Clyde L., Clerk | 91 Bancroft Ave. |
| Davis, Malcolm C., Teacher | 12 Federal St. |
| Davis, Victor H., Merchant | 21 Arlington St. |
| Dennison, Ralph H., Clerk | Copeland Ave. |
| Dickie, Logan R., Treasurer | 56 Walnut St. |
| Dickinson, Norman L., Auto Painter | 40 Mount Vernon St. |
| Dillaway, Newton L., Financial Business | 12 Perkins Ave. |
| Downs, Edward F., Accountant | 170 High St. |
| Dukelow, John, Superintendent | Spruce Rd. |
| Esterbrook, Alvin E., Engineer | 48 Temple St. |
| Farwell, Howard P., Insurance | 128 Salem St. |
| Ferris, Thomas, Jr., Mechanic | 144 High St. |
| Fleming, Harold I., Traffic Manager | 41 Hanscom Ave. |
| Fletcher, Warren L., Voicer | 43 Highland St. |
| Fortune, William J., Asst. Vice Pres. | 60 Prescott St. |
| Fuller, Albert S., Salesmanager | 18 Salem St. |
| Gale, Roger D., Chemist | 8 Dudley St. |
| Goodridge, George E., Manufacturer | 44 Temple St. |
| Hapgood, Charles H., Salesman | 21 Salem St. |
| Harnden, Edward E., Salesman | 195 Summer Ave. |
| Hartshorn, Benjamin M., Credit Man | 15 Vine St. |
| Hawkins, Louis O., Engineer | 21 Arlington St. |
| Henderson, William A., Bond Salesman | 126 Woburn St. |
| Higgins, Linville H., Asst. Treasurer | 3 Echo Ave. |
| Hobart, Earl G., Garage Proprietor | 66 Main St. |
| Holcomb, Charles A., Advertising | 6 John St. |
| Hopkins, Walter S., Merchant | 348 Summer Ave. |

| | |
|-------------------------------------|-------------------|
| Ives, C. Quincy, Salesman | 96 Oak St. |
| Jewett, Irving F., Insurance | 213 Summer Ave. |
| Keating, Raymond O., Accountant | 11 Kingston St. |
| Knapp, Arthur C., Engineer | Pinevale Rd. |
| Knight, Joseph D., Manager | 7 Perkins Ave. |
| MacLeod, Herbert W., Salesman | 17 Vine St. |
| Millett, Henry Q., Auditor | 59 Linden St. |
| Palumbo, John, Fruit Dealer | 110 Ash St. |
| Parker, Harold F., Insurance | 24 Pratt St. |
| Partelow, Arthur E., Manufacturer | 22 Middlesex Ave. |
| Paul, Theodore L., Accountant | 2 Cross St. |
| Pearson, Alfred B., Salesman | 38 Hanscom Ave. |
| Pinkham, Carl W., Voicer | 24 Pleasant St. |
| Prentiss, Archer R., Insurance | 33 Berkeley St. |
| Prince, Carl C., Insurance Broker | 19 Oak St. |
| Quigley, H. Harvey, Painter | 119 Main St. |
| Rich, Guy E., Superintendent | 13 Harriman Ave. |
| Richardson, Charles L., Broker | 302 Summer Ave. |
| Rogers, Ernest W., Merchant | 193 Main St. |
| Sawyer, Carl B., Merchant | 156 Summer Ave. |
| Sias, Wilbur S., Machinist | 430 Main St. |
| Siegars, William W., Steamfitter | 42 Temple St. |
| Smith, Frank A., Draughtsman | 29 Berkeley St. |
| Taber, Geo. A., Consulting Engineer | 320 Main St. |
| Thompson, Sylvanus L., Mechanic | 8 Intervale Ter. |
| Thorn, Jesse S., Engineer | 92 Main St. |
| VanStone, Edward P., Manufacturer | 46 West St. |
| Veazie, Harold K., Clerk | 48 John St. |
| Wadsworth, Stephen F., Manager | 28 Hartshorn St. |
| Wakefield, Ernest T., Farmer | 57 Wakefield St. |
| Ware, Charles W., Costumer | 11 Linden St. |
| Woodward, E. Whitcomb, Bank Clerk | 50 Highland St. |
| Wooldridge, Herbert J., Electrician | 133 High St. |
| Young, Frank W., Tailor | 19 Highland St. |

Approved:

W. HOMER MORRISON
MOLLIE A. SWEETSER
ALBERT N. LEMAN

Reading, Mass., June 26, 1931.

Selectmen of Reading.

TOWN MEETINGS, 1931

ANNUAL TOWN ELECTION

Security Hall, Woburn St., March 2, 1931.

Pursuant to the warrant and the return of the Constable, a Town meeting was held for the election of town officers and was called to order by the Moderator, Charles P. Howard. The warrant was partially read when on motion it was voted to dispense with further reading except the Constable's return which was duly read.

Article 1. To bring in their votes on one ballot for Moderator, one member of the Board of Selectmen for three years, Treasurer, Collector of Taxes, one member of the Board of Assessors for three years, Town Clerk, two members of the Board of Public Works for three years, one member of the Board of Public Works for two years, Tree Warden, one member of the Board of Health for three years, one member of the Board of Public Welfare for three years, two members of the School Committee for three years, two Trustees of the Public Library for three years, one member of the Municipal Light Board for three years, two members of the Board of Cemetery Trustees for three years, two Constables, two members of the Planning Board for three years, one member of the Planning Board for one year.

Moderator, One Year

| | |
|---|------|
| Charles P. Howard, 122 Summer Ave. | 2141 |
| Blanks | 388 |

Town Clerk, One Year

| | |
|---|------|
| Millard F. Charles, 66 Bancroft Ave. | 2274 |
| Blanks | 255 |

Selectmen, Three Years

| | |
|-------------------------------------|------|
| Albert N. Leman, 13 School St. | 1633 |
| James E. Lewis, 9 Park St. | 785 |
| Blanks | 111 |

Board of Public Welfare, Three Years

| | |
|---|------|
| George H. Sidebottom, 80 Summer Ave. | 2073 |
| Blanks | 456 |

Assessor, Three Years

| | |
|--|------|
| Arthur S. Cook, 59 Bancroft Ave. | 1211 |
| J. Fred Richardson, 17 Prospect St. | 1112 |
| Blanks | 206 |

Treasurer, One Year

| | |
|--|------|
| Preston F. Nichols, 56 Linden St. | 2188 |
| Blanks | 341 |

Tax Collector, One Year

| | |
|---------------------------------------|------|
| Grace V. Viall, 42 Bancroft Ave. | 2229 |
| Blanks | 300 |

Board of Public Works, Three Years

| | |
|--|------|
| Arthur M. Curtin, 63 Harrison St. | 331 |
| Martin B. Hartshorn, 214 High St. | 1602 |
| John A. Loring, 83 Prospect St. | 1309 |
| Harold W. Putnam, 117 Bancroft Ave. | 1382 |
| Blanks | 434 |

Board of Public Works, Two Years

| | |
|--------------------------------------|------|
| Robert E. Fowle, 2 Perkins Ave. | 2058 |
| Blanks | 471 |

Two Constables, One Year

| | |
|---------------------------------|------|
| Leon G. Bent, 315 Main St. | 2110 |
| James W. Sias, 5 Salem St. | 2009 |
| Blanks | 939 |

Tree Warden, One Year

| | |
|---------------------------------------|------|
| Henry M. Donegan, 15 Federal St. | 2263 |
| Blanks | 266 |

Municipal Light Board, Three Years

| | |
|-----------------------------------|------|
| Harry P. Baker, 193 Main St. | 2084 |
| Blanks | 445 |

Board of Health, Three Years

| | |
|--------------------------------------|------|
| Edward M. Halligan, 3 Salem St. | 2207 |
| Blanks | 322 |

School Committee, Three Years

| | |
|--|------|
| Arthur W. Coolidge, 136 Summer Ave. | 1778 |
| Josephine L. Fowler, 65 Temple St. | 1267 |
| Helen B. Hartshorn, 15 Vine St. | 1390 |
| Blanks | 623 |

Trustees Public Library, Three Years

| | |
|---------------------------------------|------|
| Ralph S. Kenneely, 32 Woburn St. | 2042 |
| Jesse W. Morton, 114 Woburn St. | 2134 |
| Blanks | 882 |

Cemetery Trustees, Three Years

| | |
|--------------------------------------|------|
| Frank L. Edgerley, 203 Main St. | 2170 |
| Fred L. Nutter, 41 Linden St. | 2059 |
| Blanks | 829 |

Planning Board, Three Years

| | |
|--|------|
| Paul Mich, 26 Middlesex Ave. Ext. | 943 |
| Winthrop D. Parker, 1 Charles St. | 1694 |
| Clark S. Robinson, 393 Main St. | 1571 |
| Blanks | 850 |

Planning Board, One Year

| | |
|-----------------------------------|------|
| Louis M. Lyons, 5 Vale Road | 2042 |
| Blanks | 487 |

The votes were counted and declared in open Town Meeting.

Voted to adjourn.

MILLARD F. CHARLES, Town Clerk.

ANNUAL TOWN MEETING

Security Hall, Woburn St., March 9, 1931.

Pursuant to a warrant duly issued and as voted at special town meeting held on December 1, 1930 and adjourned to this date, the meeting was called to order by the Moderator, Charles P. Howard. The warrant was partially read when it was moved that further reading of the warrant be dispensed with except the Constable's return, which was duly read by the Town Clerk, Millard F. Charles.

The regular annual town meeting was then opened and duly adjourned until the business of the special town meeting was completed.

Article 7. To see if the town will vote to accept the report of the Committee appointed to revise the Buildings Laws and will vote to adopt the rules and regulations as a By-Law of the Town or what it will do in relation thereto. Committee on Building Laws.

Article 7. It was moved by Elias B. Currell to take up Article 7 of special town meeting and it was so voted and the following By-Laws for the construction of buildings were voted.

ADMINISTRATION

Section 1. An Inspector of Buildings shall be appointed annually by the Selectmen during the month of March for a term of one year or until his successor has been appointed and qualified. He shall be familiar with building construction and shall not be interested in any contract or engagement for furnishing labor or materials or plans for the construction or alteration or any building in the town.

Section 2. The Inspector shall examine all building in the course of construction, alteration and repair and see that all by-laws of the town in relation thereto are complied with and when necessary shall take proper measures to secure such compliance. He shall keep a record of the business of his office, make all returns required by law and shall make an annual report of his work to the Selectmen with such recommendations as he may deem best.

He shall perform such other duties as may be prescribed by these by-laws. None of the provisions of these by-laws shall be construed so as to conflict with the requirements made by the Department of Public Safety under the authority of Chapter 143 of the General Laws.

Section 3. No building within the limits of the Town of Reading except those which come under the provisions of Sec. 15 of Chapter 143 of the General Laws shall be erected and no addition or alteration changing the character of any such building shall be made by any person unless he shall first file with the Inspector, plans and specifications or a full description of the proposed work; if the plans, specifications or description so filed shall be in compliance with the building limitations prescribed in these by-laws, the Inspector shall forthwith issue a permit therefor.

Section 4. To obtain a permit the person intending to erect or make such alterations in such building shall seven days at least before the work is to begin, file with the Inspector a notice of the intention with plan, together with specifications or a full description of the proposed work. No building hereafter erected, altered, added to or repaired that is to be finished in whole or in part shall be lathed, plastered or sheathed until the builder or mechanic shall have notified the Inspector of Buildings to inspect the same and shall have received from said Inspector a notice in writing that the building is accepted. The Inspector of Buildings on receipt of a notice from the builder that any building or alteration or repairs to any building are ready for inspection shall as soon as possible inspect the premises, but shall not accept building until all the requirements of these by-laws as to frame, chimneys, fire stops, furnace and steam pipes and all other parts of the construction have been complied with, and no building shall be occupied until accepted by the Inspector.

The Inspector shall also require that all permanent piers or columns under girders, trimmers, etc., shall be in place before the building is lathed and plastered.

Section 5 not approved.

Section 5A. No oversight or neglect of duty on the part of the Inspector of Buildings shall legalize the erection, construction, alteration or repair of the building in a manner not in conformity with the provision of this by-law, the Tenement House Act for Towns or any state law or regulation.

Section 5B. In case any work on any building is in violation of any of the provisions of the permit or of existing law, the Inspector of Buildings shall have the right and is hereby authorized and empowered to order that all work in and about the building be stopped.

Section 5C. All permits shall be void unless operations thereunder are commenced within 6 months after date of the permit or if the operations thereunder are discontinued for a period of more than six months.

Section 5D. The following fees shall be paid by the applicant on receipt of permit:

| | |
|--|--------|
| For a permit for the erection of each single dwelling | \$5.00 |
| For each twin or duplex dwelling | 8.00 |
| For each apartment house for the first suite | 8.00 |
| Add for each additional suite | 2.00 |
| For each single one-story store | 5.00 |
| For each block of such stores for the first store | 5.00 |
| Add for each additional store | 2.00 |
| For each school building | 10.00 |
| For buildings used solely as halls or theatres for the first \$1,000 of cost | 1.00 |

| | |
|---|------|
| For each additional \$1,000.00 of cost not exceeding in all \$25 | .25 |
| For each garage for not more than two cars | 1.00 |
| For each additional car | .50 |
| For business buildings of stores and offices and for all buildings and structures not included in any of the foregoing classifications for the first \$1,000.00 of cost | 1.00 |
| and for additional \$1,000.00 not exceeding in all \$20 | 1.00 |
| For alterations for the first \$1,000.00 of cost | 1.00 |
| and for each additional \$1,000.00 not exceeding in all \$5.50 . | .50 |

The Building Inspector shall endorse upon the back of the application the amount to be charged for the permit.

The applicant shall pay this amount to the Town Treasurer, who will give the applicant a receipt for same and write upon the back of the application that it has been paid.

BOARD OF APPEAL

Section 6. The Board of Selectmen shall annually appoint a committee of 3 citizens of Reading for the term of 1 year or until their successors are appointed and qualified, to be called the "Board of Appeal". In case of doubt as to the true meaning, intent or application of these Building Laws, either the Inspector or any one aggrieved by the ruling of the Inspector thereon, may by petition bring the matter before said Board for determination. The Board shall thereupon give a hearing on such petition and determine the true intent, meaning and application of these by-laws. A decision of a majority of said Board shall be binding on all parties affected thereby. The Board of Appeal may vary the provisions of this by-law in specific cases which appear to them not to have been contemplated by this by-law or in cases wherein its enforcement would involve practical difficulties or unnecessary hardships and wherein desirable relief may be granted without substantially derogating from intent and purpose of this by-law, but not otherwise.

The decision in such cases shall be unanimous and shall specify the variance allowed and the reason therefor and shall be filed in the office of the Building Inspector within ten days after the hearing.

BUILDING LIMITATIONS

Section 7. No buildings except a manufactory, railway station, telephone exchange, stable, church, schoolhouse, hotel, garage or hall for public assemblies shall hereafter be erected and no existing building shall be altered or added to, thereby giving it a frontage of more than 50 feet without one or more partition walls of brick or some incombustible material approved by the Inspector, extending from the bottom of the cellar or from a foundation wall through the roof and projecting at least one foot. Such wall shall not be more than fifty feet apart throughout the length of the building. No existing building having a frontage of more than fifty feet shall be converted to a use not ex-

cepted by this section without at least one partition wall constructed as described in this section. Provided, however, that any single dwelling house intended for one family may be extended more than fifty feet in one direction without such partition wall.

Section 8. All buildings hereafter erected, which are to be used in whole or in part for business or manufacturing purposes, or as places for public meetings, which buildings shall be erected within one hundred feet of an area bounded by a line beginning at the junction of Salem and John Streets, thence running along John Street to Village Street, continuing to Washington Street, thence turning and running along Washington Street to High Street thence along High Street to Mt. Vernon Street, to Linden Street, to Lowell Street, along Lowell Street to Salem Street, along Salem Street to John Street, at the point of beginning shall be constructed of brick, stone or concrete and have slate, metal or composition roof covering and metal gutters.

Section 9. No wooden building to be used for a dwelling house shall exceed forty-five feet in height, and no wooden building shall be built, the walls of which to the main cornice exceed thirty feet in height, and no portion of any wooden building shall be placed at a less distance than five feet from the side line or rear line of the lot upon which the building is to be located or within ten feet of another wooden building except where a masonry external wall is substituted for a wooden wall, and carried to the under side of roof covering and of a thickness and in the manner prescribed for external walls of brick buildings, openings in same to be provided with fireproof shutters. A wall with coating of cement on wood frame shall not be considered a masonry wall.

WALLS

Section 10. In all wooden buildings not exceeding 3 stories in height, the posts of which exceed twenty-two feet in length the sills shall not be less than six by eight inches and the posts and girts not less than four by eight inches; in all such buildings the posts of which are twenty-two feet or less in length, the sills shall be not less than four by six inches, unless the Inspector allows a four by eight-inch sill, and the posts and girts not less than four by six inches; in all wooden buildings the studding of the outside walls shall be not less than two by four inches, set sixteen inches on centres; in all wooden buildings the studding in all partitions carrying floor timbers shall be not less than two by four inches set not more than sixteen inches on the centres and resting on girders not less than six by eight inches. Ledger boards may be used in place of girts in one and one-half story houses or in dwellings where the attic floor is below the plates if the studding spaces between which shall be filled with joists of same size as wall studs cut in tight so as to prevent a draft in case of fire. In all buildings where girts are used, the girts shall be mortised and tenoned into

the posts and fastened with a wooden pin or four steel spikes. A three-quarter inch joint bolt may be used instead of mortise and tenon, but if used, the girt must be housed into the post one inch and the joint bolt must go through the post and then into the end of the girt at least three inches with a square nut. In frame construction, every opening in an inside bearing partition shall be trussed or a beam of equal strength used.

FLOOR TIMBERS

Section 11. Floor timbers in dwelling houses when of good sound timber set 16 inches on centres shall be of the following sizes: for a span not exceeding ten feet the timbers shall be not less than two by seven inches; for a span not exceeding fourteen feet the timbers shall be not less than two by eight inches; for a span not exceeding sixteen feet the timbers shall be not less than two by nine inches; for a span not exceeding eighteen feet the timbers shall be not less than two by twelve inches; for a span not exceeding twenty feet the timbers shall be not less than two by fourteen inches; for a span not exceeding twenty-two feet the timbers shall be not less than three by twelve inches; for a span not exceeding twenty-four feet the timbers shall be not less than three by fourteen inches in size or of a size giving their equivalent in strength; there shall be girders not less than six by eight inches under main partitions; there shall be floor timbers doubled or their equivalent under all cross partitions in the first floor of all dwellings. Headers and timbers of all openings more than four feet square in first floor of dwellings shall be floor joists doubled or their equivalent; beams carrying main or cross partitions in first floor shall be supported on piers or filled iron posts not more than seven feet apart; trimmers on first floor over twelve feet in height shall be supported by a pier or post. The attic floor timbers shall not be less than two by six inches and spaced not more than twenty inches on centres for any attic, whether finished or unfinished, to which there is access and which can be used for storage or other purposes; all floor timbers with a span of from ten to sixteen feet shall have one row of bridging; all floor timbers with a space of sixteen feet or more shall have a bridging at least every eight feet, and all bridging stock shall be not less than one by two inches; all cutting of floor timbers for the passage of pipes shall be on their upper edges and no cut shall exceed two inches in depth or be made more than three feet from the point of support of the timber unless the consent of the Inspector has first been obtained. No cutting in on the under side of a floor timber will be allowed for any reason.

ROOF TIMBERS

Section 12. In buildings which are eighteen feet or more in width, rafters for pitched roofs shall measure not less than two by six inches and spaced not more than twenty inches on centres; in buildings which

are less than eighteen feet in width valley rafters shall be of such size, but in no case shall be less than two by eight inches, all timbers herein mentioned to be solid, stocks excepting plates which may be in two pieces each two by four inches thoroughly spiked together. Flat roofs shall be timbered same as floors.

DOUBLE HOUSES

Section 13. Every double house shall have a separating partition plastered on metal lath on both sides or wholly filled between the studs with brick and mortar or concrete up to the ceiling of the upper finished story and resting on an eight-inch brick wall in the cellar.

Section 14. Every block of three or more dwelling houses shall have a brick division wall at least eight inches thick between each two dwellings said wall to extend up to the under side of the roof covering.

PROJECTIONS

Section 15. No bay windows or other structures except a cornice shall be placed on any building so as to project over any public way or square without the permission of the Board of Selectmen given after due notice and hearing and then only in such manner as shall be approved by the Inspector.

LEADERS AND SNOW BARRIERS

Section 16. Water from the roof of a building shall not be allowed to flow upon or across the surface of a sidewalk. No person shall permit a leaders or conductor from the roof of a building owned by him to be placed or maintained so as to direct a volume of water upon or across the surface of a sidewalk.

Section 17. Every building erected upon the line or within eight feet of the line of any street or travelled way having a slated pitched roof sloping toward said street or way shall be provided with suitable snow barriers or guards to prevent the snow sliding therefrom.

BRICK BUILDINGS

Section 18. In all 2-story buildings the brick external and divisional walls above ground and in first-story above basement shall be at least twelve inches thick and at least eight inches in the second story but no eight-inch wall shall be more than twenty feet long without adequate lateral support.

Section 19. Provided, however, that dwelling houses of not over two and one-half stories may have ten inch hollow walls bonded every two feet in length and every five courses in height with metal or brick ties. Wherever joists are built into the wall, it shall be solidly bonded with brick for three courses below the joist.

Section 20. In all buildings of more than two stories the brick external and divisional walls shall be not less than twelve inches thick throughout the three upper stories and throughout every two stories

below shall be four inches thicker than the wall directly above. Not more than twelve feet shall be counted as a story.

Section 21. Vaulted walls shall contain, exclusive of widths, the same amount of material required for solid walls and be tied together with ties not more than two feet apart every five courses.

Section 22. The walls of brick buildings except dwelling houses shall be anchored to each other at all corners every ten feet in their height by tie anchors made of at least one and one-quarter inch by three-eighths of an inch wrought iron.

Section 23. Each floor and also roof of all masonry buildings except dwelling houses shall have its beams so tied to the walls and to each other with wrought iron straps or anchors at least one and one-quarter inches by three-eighths of an inch in section so as to form continuous ties across the building not more than eight feet apart. The walls running parallel with the floor joist shall be properly tied to the floor beams once in eight feet by iron straps or anchors of the size above specified.

All materials shall be of such quality for the purpose for which they are to be used to insure ample safety and security to life and limb and the neighboring property.

Section 24. No opening or doorway shall be cut through or formed in a party wall of any building without a permit from the Inspector of Buildings, and every such doorway shall have its top, bottom and sides of stone, brick or iron and shall be closed by two doors or sets of doors of wood covered with metal, with an air space between them of at least four inches and said doors shall be hung to slide or swing in wooden frames entirely covered with metal or to iron hinges or track in brick or stone rabbets.

EXCAVATIONS and FOUNDATIONS

Section 24A. Excavations shall be properly guarded by the person making the same against danger to life, so that the adjoining soil shall not cave in and no injury be done to any adjoining wall, building or structure thereby. In case a wall or foundation which is used in common or which projects into the lot where the new excavation is to be made is in good condition and sufficient for the nearby building and the new one, then the person causing the excavation to be made shall at his own expense preserve such wall or foundation from injury. Before a permit is issued, the architect, builder or owner presenting plans shall furnish to the Building Inspector satisfactory proof that all necessary or legal agreements have been made to carry out the same.

When doubt arises as to the safe sustaining power of the soil upon which the building is to be erected, borings shall be made or tests of the sustaining power of the soil at the expense of the owner of the proposed building. In the absence of an actual test of the sustaining power of the soil, the area of the footing shall be proportioned so that

the load per square foot upon the respective characters of soil shall not exceed those in the following table.

| | Tons per square foot | 100 |
|---|----------------------|-----|
| Solid ledge rock | " " " " | 10 |
| Shale and hard pan | " " " " | 6 |
| Gravel compact, sand and hard yellow clay | " " " " | 5 |
| Dry or wet sand of coarse or medium-sized grains | " " " " | 5 |
| Hard blue clay mixed or unmixed with sand | " " " " | 5 |
| Disintegrated ledge rock | " " " " | 5 |
| Medium stiff or plastic clay mixed or unmixed with sand | " " " " | 4 |
| Fine-grained dry sand | " " " " | 4 |
| Fine-grained wet sand (confined) | " " " " | 3 |
| Soft clay protected against lateral displacement | " " " " | 2 |

Foundation walls shall be at least four inches thicker than the required thickness of the walls of the first story. The thickness herein given shall apply to all masonry walls unless they are reinforced by a frame or skeleton or steel or reinforced cement concrete. Block stone foundations shall have the lowest course well bedded in mortar upon the ground. In projecting foot courses, the projecting portion of each stone shall be less than the width of the portion built in.

Reinforced concrete foundations and footings shall conform to general requirements for concrete, but the concrete shall be no poorer than one part Portland cement and eight parts aggregates: and there shall be not less than two inches of concrete between reinforcements and the earth or top of piles.

Structural steel grillage foundations shall have at least six inches of concrete below, and shall be entirely embedded in and surrounded by concrete at least three inches thick between steel and earth: and the concrete shall be no poorer than one part Portland cement and seven and one-half parts aggregates.

Cellar walls above grade not more than six feet high for wooden frame buildings shall have the following minimum thickness in inches. Concrete, 8 inches—brick, 8 inches—block stone and concrete block, 8 inches—rubble laid in mortar, 16 inches. Any of these shall be increased four inches if more than six feet high.

Section 24 B. Foundations shall have the following minimum dimensions.

Wooden buildings exceeding 15 feet in height.

Retaining not over six feet. Retaining 6 to 10 feet.

| | Wall thick | Footing width | Thickness | Footing width | Masonry Building |
|-----------------------|------------|------------------|-----------|------------------|---------------------|
| Concrete | 10" | 16" | 12" | 20" | 12" |
| Brick | 12" | 16" | 16" | 20" | 12" |
| Concrete block | 12" | 16" | | | |
| Block stone | 16" | 20" | 16" | 24" | 16" |
| Rubble laid in mortar | 20" | 20" | 24" | 24" | 24" |
| Rubble laid dry | 24" | 24" | 28" | 28" | |

Foundations shall extend at least three feet and six inches below any adjoining surface exposed to frost unless they rest on bed rock and they shall reach through loam or (except by special approval) through fill to undisturbed natural earth or shall rest on piles. All trenches shall be kept reasonably free from water when laying foundations and no foundation shall be started on frozen ground.

Mortar for foundations for all masonry buildings shall be Portland cement mortar: except that walls may be laid dry as elsewhere mentioned. Mortar for parapets and any walls less than 12 inches thick and exposed to the weather shall be no poorer than cement lime mortar. Rubble foundations retaining more than 15 feet of earth shall be laid in cement mortar.

Battered walls may be built provided they give the same cross sectional area as required above.

The Inspector may allow a reduction in the required thickness if the walls are of properly reinforced concrete or are properly strengthened by steel columns or beams or are held laterally by intermediate floors.

Isolated piers may be used instead of continuous foundation walls if the character of soil, building or structure make it necessary or advisable.

When rubble foundations are used under masonry buildings, the lowest course, if of stone, shall be good flat stones full width of footing, well bedded in mortar upon the ground.

PIERS AND COLUMNS

Section 25. All brick piers shall be built of the best quality of good, well-burnt hard brick laid in cement and sand mortar and well wet when laid in warm weather.

Brick piers under lintels, girders or columns of brick buildings shall have a properly proportioned cap of stone, cast iron or steel, the full size of the pier, said cap to be approved by the Inspector.

Section 26. Every pier column, pillar or post resting on the earth shall have a base course of stone or concrete and if supporting walls of masonry shall have for a footing course a broad leveller of granite or ledge stone not less than twelve inches wider on all sides than the bottom area of said piers, columns, pillars or posts and not less than twelve inches thick: and every column carrying superim-

posed columns or girders shall have outside caps and base plates and connections of iron or steel with proper lugs, sockets, etc. Where foundations rest on piles, a sufficient number shall be driven to insure proper support.

FLOOR LOADS

Section 27. All new or renewed floors, shall be so constructed as to carry safely the weight to which the proposed use of the building will subject them, but the least capacity per superficial sq. foot exclusive of materials shall be for floors of dwellings, 40 pounds. School houses and offices, 60 pounds. Stores and buildings for light mechanical purposes, 120 pounds. Public and School assembly rooms, 120 pounds. Fixed seat public and school assembly rooms, 80 pounds. Storehouses, manufactories, machine shops, 120 to 250 pounds as may be required by the Inspector. For flat roofs, 40 pounds. For fire escapes, 70 pounds. The full floor loads specified in this section shall be included in proportioning all parts of buildings designed for warehouses or for heavy mercantile and manufacturing purposes in other buildings, however, reductions may be allowed as follows: for girders carrying more than one hundred square feet of floor, the live load may be reduced ten per cent. For columns, piers, walls and other parts carrying two floors, a reduction of fifteen per cent of the total live load may be made. When three floors are carried, the total live load may be reduced twenty per cent; four floors, twenty-five per cent, five floors, thirty per cent, six floors, thirty five per cent.

Section 28. The ends of all floor beams of a brick building shall enter the wall at least four inches and shall be cut with a splay of three inches in their width or shall be carried by some approved form of a joist hanger. All chimneys shall have a suitable foundation of stone masonry or cement concrete unless resting on ledge rock.

Section 29. Roof of floor timbers entering a division wall from opposite sides shall have at least four inches of solid brick work between them.

FIRE GUARDS

Section 30. The inside of all furred brick walls shall have a fire stop at least six inches wide of some incombustible material thoroughly set up between furrings at the top and bottom of each floor.

All stud walls and partitions shall have the spaces between the floor joists immediately under said walls and partitions fire stopped with two inches of wood tightly fitted in place or fire stopped as described in Section 32.

Section 31. All walls and partitions in hospitals and places of public assemblage over one story high, and walls and partitions in theatre shall hereafter be built of brick, stone, hollow or solid blocks of cement, concrete or terracotta, solid blocks of gypsum, or metal

lath and Portland cement plaster or metal studding or other incombustible construction.

Section 32. All stud walls and partitions shall have the space between the floor joints immediately under said walls and partitions and between studs from the under side of said floor joist to a line four inches above the top of said joist filled solidly with brick and mortar or some other incombustible material. If such stud wall and partitions shall rest on a solid timber or joist to the same height as above described where there is no wall or partition below, a strap of metal two inches wider than the said studding may be substituted for the filling above described.

Section 33. All air spaces around chimneys, pipes, shafts, etc., and all other spaces which form concealed air spaces from one story to another shall have similar stops at each story.

Section 34. All ducts, chutes and shafts for ventilation or other purposes shall be of or lined with incombustible material.

Section 35. The spaces between stringers of all wooden staircases unless said strings are left exposed, shall be closed at intervals not exceeding four feet by substantial stops of incombustible materials. The soffits of wooden stairs, if plastered and the ceilings in and under staircase halls shall be plastered on metal lath.

Section 36. The partitions enclosing staircase halls shall be plastered on metal lath on both sides or be filled solidly between the studding with brick and mortar or concrete so as to form with the metal-lathed ceiling above described a complete enclosure with no openings except for windows in external walls and for doors. In cellars or basements, staircases or staircase halls shall be enclosed by brick walls except in the case of a flight of cellar stairs not opening from a staircase hall on the first floor.

CHIMNEYS and HEATING APPARATUS

Section 37. All chimneys hereafter erected shall be built from the ground with brick, stone or other fireproof non-heat-conducting materials and shall be built plumb or nearly so, so as to be self sustaining; provided however that brick flues may be securely built into the brick work of walls of the buildings to which they are hung when the walls are not less than twelve inches thick.

Section 38. All brick chimneys shall be built of hard-burned brick plastered outside below the roofing after having been examined and approved by the Inspector of Buildings, except that exposed portion of said chimneys may be left unplastered upon the outside. Said chimneys shall be topped out with brick or stone laid in cement and the topping out shall not have more than two inches projection unless the bricks are covered by a cap of stone or other incombustible material in one piece, properly secured and approved by the Inspector; and in

no case shall a nail be driven into the masonry of any flue. All chimneys shall be lined with vitrified clay flue lining.

Section 39. Every chimney shall be carried to a height sufficient to protect adjoining buildings from fire and smoke and the chimney shall extend at least six feet above the highest point of contact with the roof, providing however that the top of chimneys need not be higher than two feet above the ridge of the roof to which they belong. No structural woodwork of any kind shall be placed at a less distance than one inch from the outside of any chimney.

Section 40. No smoke pipe in any building with wooden or combustible floors or ceilings shall hereafter enter any flue except at a distance not less than twelve inches from said floor or ceiling or projecting beams; and in all cases where smoke pipes pass through stud or wooden partitions of any kind whether the same be plastered or not, they shall be guarded by a soapstone ring having a thickness radial to said pipe of not less than two inches and extending through said partition, and in cases where smoke pipes pass through woodwork of any kind in such near proximity to the brickwork of the flue that the space between said woodwork and flue is inaccessible, said pipe shall be guarded by a soapstone ring or thimble, or its equivalent, having a thickness of at least two inches and extending from the outer face of said woodwork to a point at least two inches within the brick work of the flue in which it shall be firmly set.

Section 41. All smoke pipes passing through closets shall be enclosed in metal pipes with ventilated air space of at least two inches all around. No earthenware pipe shall be used for any flues. No wood work shall be placed at a less distance than six inches from any metal flue or smoke pipe unless a circular sheet-metal shield is placed between the smoke pipe and the woodwork in which case the woodwork may be four inches from the smoke pipe. Provided that such floors, ceiling or beams may be protected by a sheet-metal shield suspended at least two inches below said floors, ceiling or beams in which case the pipe may be placed within eight inches of ceiling floor or beams.

Section 42. All hearths shall be supported upon trimmer arches of brick or stone or upon bars of iron supporting a bed of brick work, and shall project at least six inches beyond the edges and shall be at least twelve inches longer than the width of the fireplace opening and at least eighteen inches wide in front of the chimney breast. Wooden centering, supporting a trimmer arch shall be removed before plastering. A cast-iron frame and cleanout door shall be placed at the base of every smoke pipe flue and for access to every ash vault below a fireplace.

Section 43. Brickwork of all grates, fireplaces and ranges shall be not less than eight inches thick and when it adjoins a wooden or

stud partition shall have at least two four-inch walls, with at least two-inch air space between. No woodwork shall be secured to the brick work of any flue. Open fireplaces shall have fireproof foundations.

Section 44A. No furnace boiler or range set in masonry shall hereafter be placed or its location changed in any building without a permit from the Inspector of Buildings. No portable furnace or boiler shall be set on a floor of combustible material.

Section 44B. The top of every heating furnace or steam boiler shall be kept at least one foot below the lowest part of the ceiling or floor next above it and such protective covering shall be placed on such ceiling as the Inspector may require.

Section 44C. Registers connected with hot-air furnaces shall be set in nonconducting, incombustible borders at least two inches wide. Register boxes shall be made of metal with a flange on the top to fit a groove in the border and shall have a one-inch air space all around.

Section 44D. Furnace or other pipes conveying heated air shall be of tinsplate or its equal and except those from hot water or steam radiators, in partitions or between floors shall be double with a free air space between, and elsewhere shall be kept at least one inch away from any woodwork.

Section 44E. No wooden flue or air duct of any description can be used for heating or ventilating purposes.

Section 44F. A space of at least one inch to be left between all woodwork and the chimneys, with the exception of floor timbers which shall not be less than two inches from chimneys, also around all hot air, steam and hot water pipes; the spaces around chimneys and pipes where they pass through floors to be stopped with metal or other fireproof material, smoke tight. Steam and hot water pipes to have metal sleeves and collars.

Section 44G. All channels and pockets for gas, water and soil pipes to be made smoke tight at each floor.

Section 44H. Where a building is occupied above the first floor tenement or lodging house and the lower floor is occupied for stores or other purposes not connected with the upper floors the stairway leading to such upper floor must be enclosed with brick walls or with wooden partitions filled solid with brick laid in mortar or other fireproof material and plastered on both sides on metallic lathing, and all doors in such partitions covered with tin plate lock-jointed.

Section 44I. The smoke flue of every high pressure steam boiler and every appliance producing a corresponding temperature in a flue if built of brick, stone, or reinforced concrete or other approved masonry, shall have walls not less than 12 inches thick, and the inside four inches of such walls shall be fire brick laid in fire clay mortar for a distance of at least 25 feet from the point where the smoke connection of the boiler enters the flue.

STEAM PIPES

Section 45. Steam pipes shall be kept at least one inch from all woodwork, or shall be protected by an incombustible ring or tube or rest on iron supports with air space of at least one-half inch all around and when passing through partitions or floors shall be surrounded by incombustible funnels at least three-quarters of an inch larger in diameter than the pipes.

NOTICE OF UNSAFE CHIMNEY

Section 46. If any chimney flue or heating apparatus shall be found by the Inspector to be unsafe, he shall at once notify in writing the owner, agent or other party having an interest in said premises, who upon receiving said notice shall make the same safe.

Section 47. Rooms for power boilers shall be enclosed in brick, stone or concrete walls. Roofs or floors over such rooms or houses shall be made iron or masonry arches or slabs or if wood shall be protected with fireproof tile or plastered on metal lath. All doors and frames leading to such boiler room shall be covered with metal. The ceiling over all stationary boilers except those used for heating dwelling houses shall be plastered on metal lath or covered with metal.

Section 48. The floors of rooms containing stationary boilers shall be made of incombustible materials for at least five feet in front and for a suitable distance on the sides and rear. Wooden floors under portable boilers shall be protected by incombustible materials.

SAFEGUARDS DURING BUILDING OPERATIONS

Section 49. When any person is about to erect or alter the exterior walls of a building within five feet of the line of a street, he shall cause the portion of the site of the building bordering upon the street to be enclosed by a proper fence not less than four feet high and at least five feet from the line of such building and the fence shall be made as much higher as the Inspector of Buildings shall direct and the same shall be maintained until all liability to accident from falling material ceases, he shall also maintain a proper walk satisfactory to the Inspector, around said fence, as long as the sidewalk is obstructed and he shall maintain proper lights, if so required by the Inspector at both ends of such enclosed area from sunset to sunrise. In erecting any building no person shall place, deposit or suffer to remain in any street or highway, any lumber or other building material, rubbish or remains of any old building for a period longer than may be necessary for the work which may be going on; and in case such material, rubbish or remains of an old building shall necessarily remain after dark, a sufficient light shall be placed over or near the same and kept from sunset to sunrise. All rubbish from the erecting or repairing of any building, or the removal of an old building shall be carried away by the person so erecting, repairing or removing such building, at such time as the Supt. of Streets may direct, and in case of neglect or refusal to do

so, it shall be removed by the Supt. of Streets at the expense of such person. Any person violating any provision of this section shall be liable to a penalty of twenty-five dollars.

DEFINITIONS

Section 50. In these by-laws the following terms shall have the meaning respectively assigned to them: "Alteration means any change or addition. "Cellar" means a lower story of which one-half or more of the height from the street below the average grade of the ground outside the wall. "Foundation Wall" means that portion of any external wall below the level of the street, curb or if not on a street, below the grade of the ground outside the wall and that portion of any partition or party wall below the basement floor. "Party Wall" means every wall built in order to be used as a separation of two or more dwellings. "Partition Wall" means any interior wall of masonry in building. "External Wall" means every outer wall or vertical inclosure except a party wall of any building. "Height of a building" means that distance from top of outside foundation wall to the highest part of the roof. "Tenement" or "Apartment House" means any building for three or more families or for two or more families, where the building is in part for mercantile or manufacturing purposes. "Inspector" means the Inspector of Buildings appointed under Section 1 of this by-law. "Building Limits" means the building or fire limits heretofore prescribed or which may from time to time be prescribed by the Town. "Chimney" shall apply to any permanent or fixed flues or passages built into any building for conveying away the products of combustion from furnaces, stoves, boilers, ranges or fireplaces. "Repairs" means the construction or renewal of any existing part of a building or of its fixtures or appurtenances, by which the strength or fire risk is not affected or modified and not made in the opinion of the Inspector for the purpose of converting the building in whole or in part to a new use. "Thickness of a wall" means the minimum thickness of such wall. "Persons" shall mean individuals, copartnerships or corporations. "Flat roof" means any roof with a pitch of four and one-half inches per foot or less. "Basement" means a lower story partly but not more than fifty per cent below the level of the street, if adjoining, or if not, on a street below the average grade of the ground outside the wall. "Building" means any structure which is more than ten feet in length or breadth or more than seven feet in height measuring to the extremities of all parts. "Attic" means any story located wholly or partly in the roof.

Section 51. Whoever violates any of the provisions of the preceding sections of this by-law shall be punished by a fine not exceeding one hundred dollars for each offense to be paid into the treasury of the Town of Reading.

Section 52. The provisions of these by-laws shall not apply to buildings and structures owned or occupied by the United States or

the Commonwealth of Massachusetts.

RULES AND REGULATIONS FOR GAS PIPING

In order to insure public safety and provide an uninterrupted supply of gas, it is necessary to adhere to certain rules and regulations when installing gas piping and gas-burning appliances.

1. No piping shall be covered or concealed from view until same has been inspected by the Inspector. All work must be installed according to rules and regulations adopted by the Town of Reading, complete in all details and made tight before making appointment for inspection. Twenty-four hours shall be given before such inspection is required.

2. All gas piping shall be of iron or steel, all fittings shall be of malleable iron; galvanized pipe and fittings are prohibited. Iron or steel pipes shall be installed in accordance with the following scale:

| | | | | | | | |
|-----------------------|---------------|---------------|---------------|----|----------------|----------------|-----|
| 3. Diameter in inches | $\frac{3}{8}$ | $\frac{1}{2}$ | $\frac{3}{4}$ | 1 | $1\frac{1}{4}$ | $1\frac{1}{2}$ | 2 |
| Length in feet | 20 | 30 | 50 | 70 | 100 | 150 | 200 |
| Number of burners | 3 | 6 | 20 | 35 | 60 | 100 | 200 |

4. No riser or main pipe less than 3-4 inch shall be allowed. The service pipes must have connected to them close to the wall a heavy malleable tee, the end of the iron capped or plugged. The outlet side shall have a close nipple and L with a main shut-off cock made into L. On buildings of more than one user, each inlet riser should have connected to it, in cellar, a full way stop cock, the same size as riser. Risers shall be run to within five feet of that part of foundation wall at which service pipe will enter building, the bottom of riser to have drip tee.

5. Outlets for gas ranges shall have a diameter not less than that required for six burners except where gas is used for cooking and heating only, then the outlet shall be not less than 3-4 inch and all ranges and heaters shall have a tee handle cock on the service pipe.

6. No outlets shall be placed back of doors, under tanks or within four feet of any meter.

7. Tanks. Every tank shall be equipped with a suitable relief valve of approved type located on the tank proper or on the hot water pipe connected on the top of the tank, when the relief valve is connected in the pipe line said pipe must be so installed that the measure of water in the tank will be exerted against the valve to open it. No stop cocks shall be placed between valve and tank.

PLUMBING REGULATIONS FOR THE TOWN OF READING IN GENERAL

Section 1. Applications for a permit to do plumbing within the limits of the town shall be obtained by a plumber from the Board of Health and such permits shall be granted by said Board before any plumbing work may be done excepting as to repairs or leaks.

All permits issued for plumbing work if not begun within thirty days from date of the issuance of such permit shall become void.

Section 2. The rules and regulations adopted by the State Board of Labor and Industries, Section 133 of Chapter 149 of the General Laws, shall apply to every factory workshop, manufacturing, mechanical, mercantile or other establishments within the limits of the town where sinks, closets or other plumbing is or may be installed.

Section 3. Garages and other establishments connected with the public sewers, where gasoline and other dangerous volatile oils are used shall have floor drains constructed in accordance with the rules and regulations of the Metropolitan Water and Sewerage Board, and, if such drains are connected with cesspool, they shall be installed in accordance with plans to be approved by the Board of Health.

DUTIES of PLUMBERS

Section 4. The Inspector of Plumbing must be notified by the plumber when the main drain, soil, waste branch connections or ventilating pipes are in position and all calked joints necessary to be made in the job are finished and ready to be tested in the presence of the Inspector. Such test shall be that known as the water test. The Inspector must be again notified immediately after the work is completed and before it is concealed from view.

Section 5. All plumbing work must be left uncovered and convenient for examination until inspected and approved and until approval has been granted to the plumber in charge by said Inspector at the satisfactory completion of said work. If on inspection, the work is not satisfactory, the plumber will be notified and a limit of five days (unless otherwise permitted) given in which to complete the same.

DRAIN, SOIL, and WASTE PIPES

Section 6. The plumbing system of every building (except that of a private garage or stable, which if at the rear of the lot may connect with the house drain) shall be separately and independently connected outside of the building with the public sewer, and if such sewer is not provided, then with a proper and adequate private drain or sewer connecting with a septic tank or cesspool approved by Board of Health and placed not less than 10 feet outside of foundation wall. Cast iron house drains shall extend not less than 10 feet from the inside face of the wall beyond and away from the building, and, unless impracticable must be in position at time of tests. The drain and sewer connection, or septic tank shall not be covered or concealed until permission of Plumbing Inspector has been obtained. All soil pipes placed under ground within or outside of buildings shall be extra heavy cast iron pipe. Soil pipes above the ground to be of cast iron and of the quality known as standard soil pipe. Said pipes shall be securely ironed to walls laid in trenches suspended by strong iron hangers or supported on suitable brick piers and shall with a uniform grade have a fall toward sewer, septic tank, or cesspool, of not less than one fourth per foot; and shall be supplied with a Y branch placed with an accessible brass screw cleanout inside the

building at or near the point where it leaves the building. All permanent hangers, clamps or brick piers shall be placed at intervals of ten feet and shall be placed before test is made. There shall be suitable brass screw cleanouts at all angles of horizontal pipes where the same are possible and at foundation walls in a direct line with the sewer or cesspool and at such other points as the Inspector may direct. All cleanouts below the cellar bottom must be accessible for inspection and cleaning through movable covers. Change in direction shall be made with curved pipes and all connections shall be made with branches, no YTV's allowed.

SOIL PIPES

Section 7. The soil pipes of every building shall be carried above the roof open and undiminished in size at least 2 feet and 2 feet above any opening within 15 feet in any building, or where roofs are used for drying clothes or other purposes, vent must be extended eight feet above. All branches or soil or waste pipe fifteen feet or more in length shall be continued in the above manner, or into the main soil pipes, at a point above the top of the highest fixture in the building. Iron pipes when passing through the roof of a building shall be made water tight with sheet copper or four-pound sheet lead.

Joints on iron pipe shall be made with oakum and molten lead thoroughly calked. Connections of lead pipes with iron pipes shall be made with heavy brass ferrules and calked to the iron: the lead pipes to be attached to the ferrules by a round wiped soldered joint. All joints made of solder shall be full wiped joints.

RAIN WATER LEADERS

Section 8. No rain water leaders shall be connected with the house drain, sewer or cesspool.

REFRIGERATORS

Section 9. Waste pipes from refrigerators or other receptacles in which provisions are stored, shall not be connected with a drain, soil or other waste pipes, unless such waste pipes are provided with traps suitably ventilated and in every case there shall be an open tray or sink between the trap and the refrigerator.

BLOWOFF or DRIP PIPES

Section 10. No steam exhaust, blowoff or drip pipe shall connect with the sewer house drain, soil, or waste pipe, but shall discharge into a suitable tank or condenser from which a proper outlet to the drain or sewer shall be provided.

TRAPS

Section 11. Every water fixture having a waste pipe connected with sewer or cesspool shall be furnished with a separate trap placed as near as possible to the fixture that it serves except that where a sink and wash tray or bath tub and bowl come in contact with each other one round trap will be permitted for both provided that the distance between

the trap and the fixture does not exceed three feet. Where a 2-inch line of pipe passes through roof, two sinks or wash trays may connect to same without venting lower trap. When a closet is installed and a four-inch pipe runs through the roof, one sink or lavatory may be connected to said pipe without further venting providing it is top fixture. Top fixture on any stack need not be vented if within five feet of stack, or if a water closet not over 42 inches from stack. Where Esterbrook fitting is used, no venting required if trap is within five feet of stack and trap is under floor. Where built in bath tubs are installed they shall have a separate trap unless water seal in trap is twelve inches below bottom of tub. Where S traps are used they shall be of brass or other such metal as may be approved by the Inspector and not less than one and a half inches in diameter, and where round traps are used they shall be placed, if possible, so that the trap screw shall be under water. A suitable grease trap shall be connected with the kitchen sink in every hotel, restaurant, public cooking establishment or such other places as may be required by the Inspector.

Every enclosure containing one or more water closets shall be provided with adequate ventilation to the outer air either by window or suitable light shaft. No water closet shall be set in any room or apartment that has not a window having at least three square feet opening directly to the external air.

When two or more fixtures are used on one line, the waste pipe must be of iron and not less than two inches in diameter. The waste pipe from every fixture must enter the trap separately. The waste from every trap must enter the soil pipe separately on all new work except that a Y may be connected to Esterbrook filling. Every water closet or line of water closets shall be supplied from a tank or flush valve.

Section 12. All traps shall be protected from syphonage or air pressure by special cast iron, brass or galvanized iron pipes of a size not less than the water pipes they serve, except that for water closet traps they shall not be less than two inch bore for more than thirty feet. Whenever galvanized pipe is used for vent the fittings shall be of cast iron and if used for waste the fittings must be recessed galvanized iron. In old buildings where it is impossible to vent a trap, a nonsyphoning trap may be used if approved by the Inspector. Continuous vent shall be used where possible. Galvanized iron pipe may be used to connect soda fountains or other fixtures where they are not connected or directed to sewer or cesspool. A short piece of galvanized pipe may be used to connect wash bowl or bath tub not to exceed twenty-four inches.

BACK VENTS

Section 13. Air pipes less than $1\frac{1}{2}$ inches in diameter when running over twenty feet or when serving more than two traps shall be increased to $1\frac{1}{2}$ inches and all air pipes shall be run as direct as possible, and shall have such continuous slope as to avoid collecting water by

condensation. Whenever there are more than two closets, said air pipes shall not be less than three inches in diameter. All vent pipes shall be so constructed as not to allow the formation of a trap, nor to be used as waste pipes. No vent pipe shall connect with any other vent pipe until it has attained the height of the top of the fixture whose trap it ventilates. No bow venting, solder unions where washers or packing is used or venting in new buildings from the trap screw of a round trap will be allowed. Lead air pipes may be used only where they are exposed to view and in no case shall they be allowed behind walls or sheathing or other places inaccessible for inspection.

Section 14. Any person or persons receiving a written notice from the Board of Health or its agent, served upon him or them of a violation of these regulations, shall within a time not to exceed ten days, make such alterations as are called for in such notice.

Section 15. When old houses are to be connected to sewer, all fixtures must be entered and properly trapped and ventilated and water-tested to height of first fixture.

Section 16. In any house where the only fixture is a sink and connected to a cesspool or sewer, there shall be a continuous vent.

Section 17. No water closet shall be installed in any room or enclosure, basement or cellar of any dwelling house or other structure to be occupied and used for domestic purposes unless it is encased by a partition with close-fitting door or doors. (For outer air and ventilation see Section 11.)

Section 18. No range boiler shall be installed unless its capacity is plainly marked thereon in terms of the Massachusetts standard liquid measure, together with the maker's business name, in such manner that it may be easily identified. No copper, iron or steel pressure range boiler, whether plain or galvanized or other vessel or tank in which water is to be heated under pressure shall be installed without having stamped thereon the maker's guarantee that it has been tested to not less than two hundred pounds hydraulic pressure to the square inch, and no such boiler or other vessel or tank in which water is to be heated under pressure shall be installed if the working pressure is greater than forty-two and one-half percent of the guaranteed test pressure and marked thereon by the maker, and no such boiler or other vessel or tank in which water is to be heated under pressure shall be installed unless it has a safety and vacuum valve of the three-in-one type. With the waste or blowoff piped to some open fixture, no traps in waste pipe, and pipe protected from any chance of freezing to prevent syphonage and expansion or explosion. And the Plumbing Inspector must be notified when the work has been completed.

Section 19. The Board of Health shall see that these ordinances and regulations of the town regarding plumbing are enforced. Who-

ever violates such regulations of the Board of Health shall pay a penalty of not over twenty dollars.

INSPECTION OF WIRES

Rules and Regulations for the Inspection of Wires, etc.

Section 1. An Inspector of Wires shall be appointed annually by the Selectmen and shall hold office from the first day of April in each year and until his successor is appointed. The Selectmen may remove him at pleasure. He shall keep a record of the business of his department and submit a report to the Selectmen in writing on or before February 1st of each year.

Section 2. The Inspector of Wires shall have supervision of all electric and other wires erected upon, over or under any street, way or building and of every wire within any building, when such wire is designed to carry electric lighting or power currents, and shall have authority over, and shall inspect such wires, their condition, attachments, insulation, supports and appliances so as to secure safety to life and property and shall see that provisions of Chapter 166 of the General Laws and all acts in amendment thereof and addition thereto and all other laws, ordinances and regulations relating to electric and other wires are strictly enforced; and shall give notice promptly to any person or corporation owning or operating any such wire when in his judgment the same is unsafe or is not placed, kept and maintained in accordance with the requirements of said chapter of the provisions of any other law, ordinance or regulation.

Section 3. Said Inspector shall supervise all poles supporting electric or other wires upon or over any street or buildings and all supports of such wires when attached to buildings and ascertain if all said wires and supports are not weakened by decay or other causes; and in case a person or corporation owning, leasing or operating wires shall neglect or refuse to cut out and remove any wires so abandoned for use, said Inspector shall remove such wires at the expense of such parties or corporation.

Section 5. All wires, appliances and apparatus in the interior of public buildings or on private premises, and which are intended for the transmission of electricity, and to be connected with an outside circuit, shall be made placed and arranged and at all times kept to the satisfaction of said Inspector; and said Inspector at all proper and reasonable times shall have access to such wires, apparatus or appliances. No person shall put in place or change or alter the position of any such wires, appliances or apparatus, without having first notified the Inspector, who shall be given full opportunity to inspect the same before they shall be covered or enclosed. No wires shall be placed in any building in process of construction, until all gas, steam, sewer, water and furnace pipes have been placed in proper position, and at least forty-eight hours notice shall be given the Inspector, that the building is ready for lath-

ing, before any lathing is done, or before any of the wiring or other part of the electric lighting system therein is covered by lathing or otherwise.

Section 6. Wires in the interior of any public building or on private premises, intended to be connected with an outside circuit, shall not be so connected with any wire or wires crossing or running along over or under any street or way, without written permission having been obtained therefor from the said Inspector.

Section 7. Every person or corporation operating electric or other wires in, on, over or under any street way or building in the Town, upon the request of such Inspector, shall furnish him within fifteen days thereafter, accurate lists of the poles or other supports of their wires, the number of cross arms in use with each and the number of wires attached thereto, the location of conduits and manholes with information as to localities where and what service is rendered, whether telegraphic, telephonic, fire alarm or otherwise.

Section 8. The said Inspector upon request shall also be furnished by any person or corporation owning or operating electric wires, with such information as to kind, size and tested strength of supporting or service wires, the average volts charged or used, together with such other information as may by him be considered necessary to the faithful and effectual discharge of his duties.

Section 9. In no case shall a current of electricity be connected to any system of wiring or apparatus intended to be used for power or lighting without permission being first obtained and a written permit granted by the Inspector of Wires. The jurisdiction of the Inspector is intended to include all public and private electrical systems that are now and may hereafter be installed in the Town of Reading.

Article 10. In case of fire, the Chief Engineer, or the Engineer acting as such, shall have full power and authority to order and cause any electric wire or wires to be cut off or removed, and electric currents discontinued until the fire is extinguished.

Section 11. Every person or corporation engaging in the business of wiring buildings or other electrical work in the Town of Reading, shall first satisfy the Inspector of Wires that he or they are competent to perform such work, and all work done shall be reported on the official forms of this department.

Section 12. Architects are required when drawing plans and specifications to make provision for the channeling and pocketing of buildings for electric light and power wires. No electric gas lighting will be allowed on the same structures with the electric light.

Section 13. Any person or corporation who shall do or attempt to do any electrical construction work, whether original work or alterations without giving written notice to the Inspector of Wires, or after request from said Inspector failing to furnish him with a working draw-

ing of the proposed construction or alteration, and obtaining from him a written permit to do such work may be punished and the order of the Inspector enforced as provided in Section 38 of said Chapter 166.

Section 14. This ordinance shall not be construed to relieve or lessen the responsibility of any party owning, operating or controlling any electrical equipment for damages to any one injured by any defect therein, nor shall the Town be held as assuming any such liability by reason of the inspection authorized herein or certificates issued by its agents and servants, exercising the rights or powers given herein.

Section 15. Every person or corporation, private or municipal, within the Town, shall affix at the point of support at which any such wires or cables containing wires are attached a mark, on the cross arm (or bracket, when such is used in place of a cross arm,) a tag designating the owner or user of such wire or cable. No such tag or mark shall be required for the wires of a street railway company used for the transmission of its motive power nor for the protection or support of such wires, for a current with a potential of 500 volts or under, but all cross arms and wires shall be marked as herein described on alternating high tension transmission lines and suitable guard wires placed over them.

Section 16. The violation of any of the above rules and regulations may be punished in accordance with the penalties prescribed by provisions of law governing the same.

Section 17. These rules and regulations may be amended or added to at such times as the Inspector of Wires may deem it wise for the safety of the public with the approval of the Selectmen.

E. B. CURRELL

F. E. GRAY

H. F. PARKER

W. D. PARKER

A. MICHELINI

Committee on the Revision of Building Laws.

On motion of Elias B. Currell, it was voted to adopt Building Laws as a part of the By-Laws of this Town.

Article 8. To see if the Town will vote to rezone the area bounded as follows. Beginning approximately 588.02 feet distant from the northeasterly corner of Main and Forest Streets, and at the northeasterly corner of Main Street and a proposed street called "Willard Road," thence running northeasterly along the eastern line of Main Street to Pearl Street; thence southeasterly along the westerly line of Pearl Street to the said proposed street called "Willard Road" and thence westerly along the northerly line of Willard Road to the point of beginning, so that the entire area described above shall be changed from a

Multiple Residence District and a Single Residence District to a Business District, or what it will do in relation thereto.

M. E. Brande and others.

Article 8. On motion of George E. Larrabee, it was voted to take from the table this article.

The Planning Board, to whom this article was referred at the Special Town Meeting of Dec. 1, 1930, made a report on their finding and did not consider a change in the rezoning of this particular area needed. After some discussion the previous question was moved by Rolland L. Perry and it was voted not to rezone the area on Main Street, North of Forest Street as called for in said Article 8.

On motion of W. Homer Morrison, the Special Adjourned Town Meeting was adjourned sine die.

MILLARD F. CHARLES,
Town Clerk.

ANNUAL BUSINESS TOWN MEETING

The Moderator then proceeded with the regular business of the annual Business Town Meeting.

Article 2. To hear and act on the reports of the Board of Selectmen, Town Accountant, Treasurer, Collector of Taxes, Board of Assessors, Board of Public Works, Town Clerk, Tree Warden, Board of Health, Board of Public Welfare, School Committee, Public Library Trustees, Municipal Light Board, Cemetery Trustees, Planning Board, Finance Committee and any other Boards and Special Committees.

Article 2. On motion of W. Homer Morrison, Article 2 was laid on the table.

Article 3. To choose all other necessary town officers and determine what instructions shall be given town officers and special committees.

Article 3. On motion of W. Homer Morrison, it was voted that the following be chosen to serve as Measurers of Lumber for the ensuing year: Ora L. Milbury, Edward B. Eames, Burton K. Symonds, William R. Zwicker, Warren M. Whitehouse and Rolland L. Perry; and the following as Measurers of Wood and Bark: Percy N. Sweetser, Burton K. Symonds, Thomas F. Brogan and Warren M. Whitehouse.

Article 3. On motion of W. Homer Morrison, it was voted to lay Article 3 on the table.

Article 4. To determine how much money the Town will raise and appropriate for General Government, Protection of Persons and Property, Health and Sanitation, Highways, Sidewalks, Drainage Maintenance, Charities and Aid, Soldiers' Benefits, Public Schools, Public Library, Recreation, Cemeteries, Memorial Day Observance, Municipal Light Department, Water Department, Sewer Department, Maturing

Debt, Interest, Insurance and General Accounts.

Article 4. On motion of W. Homer Morrison, it was voted to raise and appropriate for General Government, twenty-four thousand, four hundred and sixteen dollars divided as follows:

| | |
|---|-------------|
| Selectmen's Expenses | \$ 300.00 |
| Selectmen's Clerical | 1,310.00 |
| Town Accountant's Salary | 2,000.00 |
| Treasurer's Salary | 1,200.00 |
| Treasurer's Expenses | 600.00 |
| Collector's Salary | 2,300.00 |
| Collector's Expenses | 1,300.00 |
| Collector's Clerical | 400.00 |
| Assessors' Salaries | 1,800.00 |
| Assessors' Expenses | 1,600.00 |
| Assessors' Clerical | 2,756.00 |
| Block System Survey | 500.00 |
| Town Counsel's Salary | 500.00 |
| Town Counsel's Expenses | 150.00 |
| Town Clerk's Salary | 350.00 |
| Town Clerk's Expenses | 600.00 |
| Board of Public Works, Salaries and Office Expenses | 6,000.00 |
| Registrars' Salaries | 250.00 |
| Election and Registration Expenses | 500.00 |
| | <hr/> |
| | \$24,416.00 |

Article 4. On motion of W. Homer Morrison, it was voted to raise and appropriate eleven thousand seven hundred twenty-five dollars for General Accounts divided as follows:

| | |
|--------------------------------------|-------------|
| Miscellaneous Expenses | \$ 2,500.00 |
| Municipal Building Maintenance | 2,500.00 |
| Fire Stations, Maintenance | 1,200.00 |
| Police Station, Maintenance | 900.00 |
| G. A. R. Rooms, Lighting | 25.00 |
| Insurance | 4,100.00 |
| Planning Board Expenses | 500.00 |
| | <hr/> |
| | \$11,725.00 |

Article 4. On motion of W. Homer Morrison, it was voted that twenty-six thousand eight hundred and fifty dollars be raised and appropriated for the payment of interest on the funded debt and on temporary loans in 1931. \$26,850.00

Article 4. On motion of W. Homer Morrison, it was voted that twenty-seven thousand dollars be raised and appropriated from the tax levy of 1931 and that twenty-five thousand dollars be appropriated from

Excess and Deficiency Fund for the payment of the following bonds and notes due in 1931.

| | |
|--|-------------|
| Sewer Construction | \$ 9,000.00 |
| Municipal Building | 2,000.00 |
| Municipal Building and Library Grounds | 500.00 |
| Brown Estate Note | 500.00 |
| School Buildings | 35,000.00 |
| Police Building | 5,000.00 |

\$52,000.00

and that the Town Accountant be and he hereby is authorized and directed to transfer twenty-five thousand dollars from the Excess and Deficiency Account for the purpose specified above.

Article 4. On motion of W. Homer Morrison and as amended by Elias B. Currell, it was voted to raise and appropriate seventy-three thousand three hundred eighty-seven dollars for protection of persons and property divided as follows:

| | |
|--|-------------|
| Police Department Maintenance | \$ 2,800.00 |
| Police Dept. Salaries and Special Officers | 31,750.00 |
| Fire Department Maintenance | 3,140.00 |
| Fire Dept., Salaries | 19,800.00 |
| Fire Dept. Call Men Salaries | 3,367.00 |
| Fire Alarm Maintenance and Extension | 1,405.00 |
| Moth Department, Maintenance | 6,000.00 |
| Tree Warden, Maintenance | 3,000.00 |
| Forest Warden, Maintenance | 500.00 |
| Inspector of Buildings, Salary | 500.00 |
| Inspector of Wires, Salary | 200.00 |
| Gas Inspector, Salary | 100.00 |
| Sealer of Weights and Measures, Salary | 500.00 |
| Sealer of Weights and Measures, Expenses | 225.00 |
| Game Warden, Salary | 100.00 |

\$73,387.00

Article 4. On motion of Martin B. Hartshorn, it was voted that the town raise and appropriate \$8,015.00 for hydrant rentals, and \$100.00 for drinking fountains and that the above-named sums, together with the Water Dept. receipts estimated at \$58,000.00 and the balance on hand, January 1, 1931 of \$1,290.26 be appropriated for payment of water bonds, interest on bonds, maintenance and operation and construction of water works. \$8,115.00

Article 4. On motion of Martin B. Hartshorn, it was voted that the Town appropriate the receipts of the Sewer Department from Assessments and Rentals estimated at \$12,000.00, together with the balance on hand, January 1, 1931 of \$3,527.79, to be applied by the Board

of Public Works to the payment of charges and expenses incident to the maintenance, operation or extension of the sewer system.

Article 4. On the motion of W. Homer Morrison, it was voted to raise and appropriate \$7,900.00 for Health and Sanitation divided as follows:

| | |
|-------------------------------------|-------------|
| Board of Health, Salaries | \$ 300.00 |
| Board of Health, Expenses | 600.00 |
| Inspector of Plumbing, Salary | 800.00 |
| Inspector of Animals, Salary | 200.00 |
| Inspector of Milk and Food | 200.00 |
| Care of Contagious Diseases | 3,000.00 |
| Garbage Collection | 2,300.00 |
| Dental Clinic | 500.00 |
| | <hr/> |
| | \$ 7,900.00 |

Article 4. On motion of Martin B. Hartshorn, it was voted that the sum of forty-four thousand dollars be raised and hereby is appropriated for construction, maintenance and repairs of highways, setting curb, purchase of material, tools and appliances and for the payment of any other incidental expenses. \$44,000.00

Article 4. On motion of Martin B. Hartshorn, it was voted that the sum of eight thousand dollars be raised and appropriated for sidewalk construction. \$8,000.00

Article 4. On motion of Martin B. Hartshorn, it was voted that the sum of five thousand dollars be raised and appropriated for the Removal of Snow and Ice. \$5,000.00

Article 4. On motion of Martin B. Hartshorn, it was voted that the sum of three thousand dollars be raised and appropriated for the maintenance of storm drains and waterways. \$3,000.00

Article 4. On motion of Martin B. Hartshorn, it was voted that the sum of six hundred dollars be raised and appropriated for the care of dumps. \$600.00

Article 4. On motion of Martin B. Hartshorn, it was voted that the sum of six thousand dollars be raised and appropriated for the care of the Common, parks and supervised play. \$6,000.00

Article 4. On motion of Henry R. Johnson, it was voted that there be included in the tax levy for electricity used for street lights the sum of thirteen thousand five hundred dollars, and that said sum, together with the receipts of the Municipal Light Department for the current year be appropriated for the maintenance and operation of the municipal lighting plant, the whole to be expended by the manager of municipal lighting under the direction and control of the Municipal Light Board for the expense of the plant for said fiscal year as defined in Section 57 of Chapter 164 of the General Laws and that, if there shall be any unexpended balance thereof at the end of said fiscal

year, such balance shall be transferred to the construction fund of said plant and appropriated and used for such additions thereto as may be authorized by the Municipal Light Board during the next fiscal year.

\$13,500.00

Article 4. On motion of Mary F. Daniel, it was voted that the sum of twenty-four thousand, four hundred two dollars be raised and appropriated for Charities and Aid, divided as follows:

| | |
|--|-------------|
| Visitor's Salary | \$ 000.00 |
| Visitor's Salary, Old Age Assistance | 200.00 |
| Clerical Salary | 352.00 |
| Aid, Board and Care | 12,000.00 |
| Temporary Aid | 3,250.00 |
| Old Age Assistance | 4,000.00 |
| Mothers' Aid | 4,000.00 |
| | <hr/> |
| | \$24,402.00 |

Article 4. On motion of W. Homer Morrison, it was voted that the sum of eight thousand three hundred dollars be raised and appropriated for soldiers' benefits as follows:

| | |
|------------------------|------------|
| State Aid | \$ 200.00 |
| Military Aid | 100.00 |
| Soldiers' Relief | 8,000.00 |
| | <hr/> |
| | \$8,300.00 |

Article 4. On motion of Carl M. Spencer, it was voted that the sum of two hundred forty-nine thousand four hundred fifty dollars be raised and appropriated for School Expenses, divided as follows:

| | |
|--------------------------------|---------------|
| General Maintenance | \$ 56,450.00 |
| General Salaries | 188,500.00 |
| Agricultural Maintenance | 300.00 |
| Agricultural Salaries | 3,000.00 |
| Industrial Tuition | 1,200.00 |
| | <hr/> |
| | \$ 249,450.00 |

Article 4. On motion of Ralph S. Keneely, it was voted that the sum of eight thousand dollars be raised and appropriated for the Public Library divided as follows:

| | |
|-----------------------------------|-------------|
| Public Library, Maintenance | \$ 3,200.00 |
| Public Library, Salaries | 4,800.00 |
| | <hr/> |
| | \$ 8,000.00 |

the same to be expended under the direction of the Trustees of the Public Library.

Article 4. On motion of Philip H. Tirrell, it was voted that the

sum of ten thousand one hundred fifty dollars be raised and appropriated for cemeteries:

| | |
|--|--------------|
| Maintenance of Laurel Hill Cemetery | \$ 8,900.00 |
| Maintenance and Development of Forest Glen Cemetery | 1,250.00 |
| | <hr/> |
| | \$ 10,150.00 |

Article 4. On motion of W. Homer Morrison, it was voted that six hundred dollars be raised and appropriated for Memorial Day observance, to be expended under the direction of Post 62, American Legion. \$600.00

It was voted to lay Article 4 on the table.

Article 5. To see if the Town will authorize the Treasurer, with the approval of the Selectmen, to borrow money from time to time in anticipation of revenue of the financial year beginning January 1, 1931, and to issue a note or notes therefor, payable within one year, any debt or debts incurred under this vote to be paid from the revenue of said financial year. Town Treasurer

Article 5. On motion of Leon G. Bent, it was voted that the Treasurer be authorized with the approval of the Selectmen, to borrow money from time to time in anticipation of revenue of the financial year beginning, January 1, 1931, and to issue a note or notes therefor, payable within one year, any debt or debts incurred under this vote to be paid from the revenue of said financial year.

Article 6. To see if the Town will authorize the Treasurer, with the approval of the Selectmen, to renew or refund any notes issued in anticipation of revenue for a period of less than one year, in accordance with the provisions of Sect. 17, Chap. 44, General Laws, or what it will do in relation thereto. Town Treasurer

Article 6. On motion of Leon G. Bent, it was voted that the Treasurer be authorized, with the approval of the Selectmen, to renew or refund any notes issued in anticipation of revenue for a period of less than one year, in accordance with the provisions of Section 17, Chapter 44, General Laws.

Article 7. To see if the Town will raise and appropriate the sum of five thousand dollars (\$5,000.00) for the Reserve Fund as provided by Section 6, Chapter 40, General Laws, or what it will do in relation thereto. Town Accountant

Article 7. On motion of Leon G. Bent, it was voted that the sum of five thousand dollars be raised and appropriated for the Reserve Fund as provided by Section 6, Chapter 40 of the General Laws. \$5,000.00

Article 8. To see if the Town will raise and appropriate the sum of three hundred and sixty dollars (\$360.00) for the purpose of providing suitable quarters for Veteran Post No. 194, G. A. R., in accordance with the provisions of Section 5, Chapter 40, General Laws, or

what it will do in relation thereto.

Board of Selectmen

Article 8. On motion of Albert N. Leman, it was voted that three hundred and sixty dollars be raised and appropriated for the purpose of providing suitable quarters for Veteran Post No. 194, G. A. R., in accordance with the provisions of Section 5, Chapter 40 of the General Laws. \$360.00

Article 9. To see if the Town will raise and appropriate the sum of six hundred dollars (\$600.00) for the care of graves of any persons who have served in the Army, Navy or Marine Corps of the United States, in time of war or insurrection, and who have been honorably discharged, from such service, as provided by Section 22, Chapter 115, General Laws or what it will do in relation thereto.

Board of Selectmen

Article 9. On motion of Mollie A. Sweetser it was voted that six hundred dollars be raised and appropriated for the care of graves of any persons who have served in the Army, Navy, or Marine Corps of the United States, in time of war or insurrection and who have been honorably discharged from such service as provided by Section 22, Chapter 115, General Laws. \$600.00

Article 10. To see if the Town will raise and appropriate the sum of five hundred dollars (\$500.00) for Traffic Signs, or what it will do in relation thereto.

Board of Selectmen

Article 10. On motion of W. Homer Morrison, it was voted that five hundred dollars be raised and appropriated for traffic signs, to be expended by the Board of Selectmen. \$500.00

Article 11. To see if the Town will raise and appropriate the sum of three thousand dollars (\$3,000.00) to purchase a Police Ambulance, or what it will do in relation thereto.

Board of Selectmen

Article 11. On motion of W. Homer Morrison, this article was indefinitely postponed.

Article 12. To see if the Town will vote to authorize the Selectmen to sell on such terms and conditions as they may determine any and all real estate acquired by the Town for taxes, wherein such title has been perfected by a foreclosure as provided by law, and sign, seal, acknowledge and deliver in the name and behalf of the Town deeds conveying such property to the purchasers thereof, or what it will do in relation thereto.

Board of Selectmen

Article 12. On motion of W. Homer Morrison, it was voted that the Board of Selectmen be and they are hereby authorized to sell on such terms and conditions as they may determine any and all real estate acquired by the Town for taxes, wherein such title has been perfected by a foreclosure as provided by law and sign, seal, acknowledge and deliver in the name and behalf of the Town deeds conveying such property to the purchasers thereof.

Article 13. To see if the Town will raise and appropriate the

sum of twelve thousand five hundred dollars (\$12,500.00) for the purchase of a triple combination pumping engine, or what it will do in relation thereto.

Board of Selectmen

Article 13. On motion of W. Homer Morrison, this article was indefinitely postponed.

Article 14. To see if the Town will raise and appropriate a sufficient sum to reimburse Albert E. Merrill for expenses incurred by reason of injuries received responding to an alarm of fire on January 23, 1931, or what it will do in relation thereto.

Board of Selectmen

Article 14. On motion of W. Homer Morrison, it was voted that one hundred and fifty dollars be raised and appropriated to reimburse Albert E. Merrill for expenses incurred by reason of injuries received responding to an alarm of fire, January 23, 1931.

\$150.00

Article 15. To see if the Town will vote to appropriate from the Cemetery Reserve Fund, received from the sale of lots and graves in Laurel Hill Cemetery, the sum of twenty-five hundred dollars (\$2,500.00) for permanent development of Laurel Hill Cemetery.

Board of Cemetery Trustees

Article 15. On motion of Philip H. Tirrell it was voted that the Town appropriate from the Cemetery Reserve Fund received from the sale of lots and graves in Laurel Hill Cemetery, the sum of twenty-five hundred dollars for permanent development of Laurel Hill Cemetery.

Article 16. To see if the Town will vote to authorize the settlement of the litigation of William H. Killam against the Town for damages for taking made by the Town through his land for the permanent maintenance of the sewer line therein, and to raise and appropriate therefor the sum of twelve hundred and fifty dollars (\$1,250.00) or what it will do in relation thereto.

Law Committee

Article 16. On motion of Samuel H. Davis, it was voted that the Town authorize the settlement for twelve hundred and fifty dollars of all litigation of William H. Killam against the Town involving the taking of land for maintenance of the trunk-line sewer therein, and that the sum of twelve hundred and fifty dollars be, and the same is hereby raised and appropriated for such settlement.

\$1,250.00.

Article 17. To see how much money the Town will raise and appropriate to be expended by the School Committee for the purpose of developing the land adjacent to the Walter S. Parker Junior High School, for a playground or athletic field, or what it will do in relation thereto.

School Committee

Article 17. On motion of Carl M. Spencer, it was voted that the sum of five thousand dollars be raised and appropriated to be expended by the School Committee for the purpose of developing the land adjacent to the Walter S. Parker Junior High School for a playground or athletic field.

\$5,000.00

Article 18. To see if the Town will authorize the School Committee to acquire by purchase, taking by eminent domain or otherwise a parcel of land containing approximately 92,650 square feet owned by the Boston and Maine Railroad and a parcel of land containing approximately three and one-half acres owned by Joseph D. Knight, said parcels adjoining the location of the Walter S. Parker Junior High School on its easterly side, for the purpose of developing the grounds adjacent to said school, and to see if the Town will raise and appropriate therefor, by borrowing or otherwise, the sum of thirty-four hundred dollars (\$3,400.00), or what it will do in relation thereto.

School Committee

Article 18. On motion of Carl M. Spencer, it was voted that the School Committee be and they are hereby authorized to acquire by purchase or by right of eminent domain in the name and behalf of the Town, two parcels of land for the purpose of developing the grounds adjacent to the Walter S. Parker Junior High School for a playground or athletic field; the first parcel containing approximately 92,650 sq. feet owned by the Boston and Maine Railroad, and the second parcel containing approximately three and one-half acres owned by Joseph D. Knight: said lands when acquired, to be held and used under the supervision and control of the School Committee and to raise and appropriate the sum of thirty-four hundred dollars for such purchase or taking.

321 voted Yes and None voted No.

\$3,400.00

Article 19. To see if the Town will authorize the School Committee to acquire by purchase, taking by eminent domain or otherwise, for school purposes, a parcel of land on Linden Street containing approximately 17,000 square feet owned by Henry Q. Millett adjoining the High School grounds, and to see how much money the Town will raise and appropriate therefor, by borrowing or otherwise, or what it will do in relation thereto.

School Committee

Article 20. To see how much money the Town will raise and appropriate, or otherwise provide, to be expended by the School Committee in preparing the house and grounds of the Millett lot referred to in Article 19 for use as offices for the Superintendent of Schools and the School Committee and for other school purposes, or what it will do in relation thereto.

School Committee

Articles 19 and 20. On motion of Carl M. Spencer, it was voted to indefinitely postpone Articles 19 and 20.

On motion of Samuel H. Davis, it was voted to adjourn to meet in Security Hall, Woburn Street on March 16, 1931 at 7 o'clock and 45 minutes P. M.

MILLARD F. CHARLES, Town Clerk

ADJOURNED ANNUAL TOWN MEETING

Security Hall, Woburn St., March 16, 1931.

The Town meeting was called to order by the Moderator and proceeded to the business of the meeting.

Article 21. To see if the Town will raise by borrowing or otherwise, and appropriate thirty-four thousand dollars (\$34,000.00) for the extension of the water system by the construction of buildings for pumping station, the installation of the necessary connecting mains and appurtenances, and the acquisition by purchase, eminent domain or otherwise, of the necessary land therefor, or what it will do in relation thereto.

Board of Public Works

Article 21. On motion of Martin B. Hartshorn, it was voted that the sum of thirty-four thousand dollars be and the same is hereby appropriated for the extension of the water system, by the construction of building for pumping station, the acquisition of land therefor and the installation of the necessary connecting mains and appurtenances, and that the Board of Public Works be and hereby is authorized, empowered and directed to purchase or take by right of eminent domain such land as they may deem suitable therefor upon such terms, conditions and awards as they may determine; and that the Town Treasurer, with the approval of the Board of Selectmen, be and hereby is authorized to borrow said sum, and to issue therefor Bonds or Notes of the Town in accordance with provisions of Chapter 44 of the General Laws and Acts amendatory thereof, and in addition thereto, so that the whole of said loan shall be paid in not more than fifteen years or at such earlier time as the Treasurer and Board of Selectmen may determine, and shall be signed by the Treasurer and countersigned by the Selectmen.

262 voted Yes and None voted No.

and it was declared a two-thirds vote in favor of the motion.

Article 22. To see if the Town will raise by borrowing or otherwise, and appropriate sixteen thousand dollars (\$16,000.00) for the extension of the water system by the purchase of the necessary pumps and water departmental equipment, and for the installation and extension of the small water mains and appurtenances, or what it will do in relation thereto.

Board of Public Works

Article 22. On motion of Martin B. Hartshorn, it was voted that the sum of sixteen thousand dollars be and the same is hereby appropriated for the extension of the water system by the purchase of the necessary pumps and water departmental equipment, and for the installation and extension of the small water mains and appurtenances; and that the Town Treasurer with the approval of the Board of Selectmen, be and he hereby is authorized to borrow said sum and issue therefor Bonds and Notes of the Town in accordance with provisions of

Chapter 44 of the General Laws, and acts amendatory thereof, and in addition thereto, so that the whole of said loan shall be paid in not more than five years, or at such earlier time as the Treasurer and Board of Selectmen may determine and shall be signed by the Treasurer and countersigned by the selectmen.

260 voted Yes, None voted No.

and it was declared a two-thirds vote in favor of the motion.

Article 23. To see if the Town will raise and appropriate, by borrowing or otherwise, the sum of fifteen thousand (\$15,000.00) dollars for the development of storm water drainage, or what it will do in relation thereto.

Board of Public Works

Article 23. On motion of Martin B. Hartshorn, it was voted that the sum of fourteen thousand dollars be raised and appropriated for the development of storm water drainage.

\$14,000.00

Article 24. To see if the Town will raise and appropriate the sum of four thousand dollars (\$4,000.00) for the purpose of highway reconstruction on Salem Street under Section 34, Chapter 90 of the General Laws, providing the State and County each appropriate a like amount.

Board of Public Works

Article 24. On motion of Martin B. Hartshorn, it was voted that the sum of four thousand dollars be raised and hereby is appropriated for the purpose of highway construction on Salem Street under Section 34, Chapter 90 of the General Laws, providing the State and County each appropriate a like amount.

\$4,000.00

Article 25. To see if the Town will accept the provisions of a special Act of Legislature passed during the current year amending the Acts of 1909, Chapter 314, known as the Reading Sewerage Act, by authorizing the Board of Public Works to fix and determine the annual rentals to be charged for the use of the sewer or what it will do in relation thereto.

Board of Public Works

Article 25. On motion of Martin B. Hartshorn it was voted that the Town hereby accepts the provisions of Chapter 85 of the Acts of 1931 relative to the determination of annual charges for the use of the system of sewerage established in the Town of Reading.

275 voted Yes, None voted No.

Article 26. To see if the Town will authorize the Board of Public Works to acquire by purchase, eminent domain or otherwise, land in and about Birch Meadow, so-called, as they may deem suitable for the purpose of a public playground, and to authorize the further development of the playground, in Birch Meadow, and to raise and appropriate therefor the sum of three thousand dollars (\$3,000.00), or what it will do in relation thereto.

Board of Public Works

Article 26. On motion of Martin B. Hartshorn, it was voted that the Board of Public Works be and hereby is authorized to acquire by purchase or by taking by eminent domain such tract or

tracts of land in Birch Meadow so-called, as they may deem suitable for the purpose of a public playground, and that there is hereby authorized the further development of the playground in Birch Meadow, and to raise and appropriate for such purchase or taking and for the further development of such playground the sum of one thousand dollars. \$1,000.00

235 voted Yes, None voted No.

Article 27. To see if the Town will authorize the Board of Public Works to purchase from Arthur D. Gordon a parcel of land located on the westerly side of Main Street in Reading Square, for the purpose of straightening and widening Main Street in said location, and to see if the Town will raise and appropriate therefor the sum of three hundred and eighty dollars (\$380.00), or what it will do in relation thereto.

Board of Public Works

Article 27. On motion of Martin B. Hartshorn, it was voted that the Board of Public Works be and hereby is authorized to purchase from Arthur D. Gordon a parcel of land located on the westerly side of Main Street in Reading Square, containing approximately 133 square feet, for the purpose of straightening and widening Main Street at said location and to raise and appropriate for such purpose, the sum of three hundred eighty dollars. \$380.00

Article 28. To see if the Town will vote to accept the report of the Board of Public Works upon the laying out as a public highway of a private way heretofore known as Shackford Road, under the provisions of law authorizing the assessment of betterments, such highway being laid out in accordance with plan duly approved by the Board of Survey and filed in the office of the Town Clerk in accordance with the statutory requirements; and to see if the Town will accept the public way laid out by the Board of Public Works and heretofore known as Shackford Road, and to raise and appropriate for the said laying out and the construction of said way the sum of four hundred (\$400.00) dollars, or what it will do in relation thereto.

Board of Public Works

Article 28

Laying out of Shackford Road

The Board of Public Works of the Town of Reading, having determined and adjudged that common convenience and necessity require the laying out of a town way under the provisions of the law authorizing the assessment of betterments, substantially in the location hereinafter described, having complied with all requirements of law relating to notice of owners of land thereof and of a hearing thereon, and having met at the time and place appointed for such hearing and then and there heard all persons present who desired to be heard, have laid out as a town way for the use of the town, running westerly from Ash Street substantially as and in the location of the private way known as Shackford Road, the boundaries and measurements of said

way as so laid out are as follows: The Northerly line of said Shackford Road commences at an iron pin on the easterly side of Ash Street, sixty and eighty-seven one hundredths (60.87) feet Northerly, from a stone bound on the Easterly side of Ash Street at a point of curvature, Northerly from Cross Street; thence on a curve to the right having a radius of twenty (20) feet, a distance of thirty-two and twenty-four one hundredths (32.24) feet to a point of tangency: thence S. 73 degrees—17' W., a distance of one hundred seventy-four and sixteen hundredths (174.16) feet to a point of curvature: thence on a curve to the right having a radius of one hundred sixty-eight and fifty-three one hundredths (168.53) feet, a distance of eighty-six and seventy-seven one hundredths (86.77) feet to a point of reverse curve:

Thence to the left on a curve having a radius of one hundred twenty-six and seventy hundredths (126.70) feet, a distance of one hundred ninety and thirty-two one hundredths (190.32) feet to a point of tangency:

Thence S. 10 degrees—57' E. a distance of twenty-four and eighty-six one hundredths (24.86) feet to a point at the end of this layout:

The southerly line of said Shackford Road is parallel to and forty (40) feet distant from the above-described northerly line.

We determine that no damages will be sustained by any person or persons in their property by reason of the taking to be made for this improvement. All acts in connection with said laying out are done under the provisions of law authorizing the assessment of betterments and betterments are to be assessed therefor. This laying out so made by us we hereby report to the Town for acceptance and recommend that said way shall thereafter be known as a public Town way and named "Shackford Road", and that the sum of four hundred dollars be raised and appropriated for said laying out, and for the construction of said way. \$400.00

MARTIN B. HARTSHORN, Chairman

FRANK M. MERRILL

WILLAM T. FAIRCLOUGH, Secretary

Board of Public Works

On motion of Martin B. Hartshorn, it was voted to accept said report of Board of Public Works and adopt their recommendations.

Article 29. To see if the Town will vote to accept the report of the Board of Public Works upon the laying out of a public highway of a private way heretofore known as Wells Road, such highway being laid out in accordance with plans duly approved by the Board of Survey and filed in the office of the Town Clerk in accordance with the statutory requirements and to see if the Town will accept the public highway laid out by the Board of Public Works, and heretofore known as Wells Road or what it will do in relation thereto.

Board of Public Works

Article 29.

Laying out of Wells Road

The Board of Public Works of the Town of Reading having determined and adjudged that common convenience and necessity require that a town way be laid out as and in the location hereinafter described, having complied with all requirements of law relating to notice to the owners of land thereof and of a hearing thereon, and having met at the time and place appointed for such hearing and then and there heard all persons present who desired to be heard, have laid out as a town way for the use of the town running northerly from a town way formerly called Forest St. now known as Forest Glen Road, substantially in the location of the private way known as Wells Road.

The boundaries and measurements of said way as so laid out are as follows:

The westerly line of said Wells Road commences at a point on the northerly side line of said Forest Glen Road, said point being S. 64 degrees—57' E. a distance of 241.34 feet measured along the northerly side line of Forest Glen Road, from a Massachusetts highway bound marking an angle in the State Highway called Main Street and the northwesterly corner of said Forest Glen Road.

From thence the said westerly line runs on a curve to the left with a radius of 20.00 feet a length of 35.75 feet across land of Albert W. and Abbie C. Aldrich to a point of tangent.

Thence N. 12 degrees—38'—30" E. by land of said Aldrich and by land of Edwin C. Hanscom a distance of 270.68 feet to a point of curve:

Thence on a curve to the left with a radius of 20.00 feet, a length of 31.42 feet across land of said Hanscom to a point of tangent on the southerly side line of said private way known as Irving Street and at the end of this layout.

The easterly line of said Wells Road is parallel with and 40 feet distant from the above-described westerly line:

For further identification of this description and location, reference is hereby made to a plan and profile of Wells Road, Reading, Mass., surveyed by Davis and Abbott, Civil Engineers, dated, November, 1930, and by reference made a part of this report.

We determine that no damages will be sustained by any person or persons in their property by reason of the taking to be made for this improvement.

No betterments are to be assessed for this improvement.

This laying out so made by us, we hereby report to the town for acceptance and recommend that said way shall thereafter be known as a public town way and named Wells Road.

MARTIN B. HARTSHORN, Chairman

FRANK M. MERRILL

WILLIAM T. FAIRCLOUGH, Secretary

Board of Public Works

On motion of Martin B. Hartshorn, it was voted to accept said report of the Board of Public Works and adopt their recommendations.

Article 30. To see if the Town will vote to accept the report of the Board of Public Works upon the laying out as a public highway of a private way heretofore known as Pinevale Avenue such highway being laid out in accordance with plans duly approved by the Board of Survey and filed in the office of the Town Clerk in accordance with the statutory requirements and to see if the Town will accept the public highway laid out by the Board of Public Works, and heretofore known as Pinevale Road, or what it will do in relation thereto.

Board of Public Works

Article 30. **Laying out of Pinevale Avenue**

The Board of Public Works of the Town of Reading having determined and adjudged that common convenience and necessity require that a Town way be laid out as and in the location hereinafter described, having complied with all requirements of law relating to notice to the owners of land thereof and of a hearing thereon, and having met at the time and place appointed for such hearing and then and there heard all persons present who desired to be heard, have laid out as a town way for the use of the town running westerly from the present terminus of the town way known as Pinevale Avenue, substantially in the location of the private way known as Pinevale Avenue. The boundaries and measurements of said way as so laid out are as follows:

The southerly line of said Pinevale Avenue commences at a point N. 5 degrees—44'—20" W. a distance of 93.04 feet from a stone bound on the southerly side of Pinevale Avenue and the westerly side of Star Road.

Thence by a curve to the left having a radius of 90.33 feet a distance of 21.49 feet to a tangent:

Thence south 80 degrees—37'—40" West a distance of 198.04 feet to a point of curve:

Thence by a curve to the left having a radius of 90.00 feet a distance of 96.89 feet to the end of this layout.

Thence S. 56 degrees—24'—20" E. a distance of 53.87 feet to the northerly line of said Pinevale Avenue.

The northerly line of said Pinevale Avenue is parallel to and 40 feet distance from the above-described southerly line.

For further identification of this description and location, reference is hereby made to a plan and profile of Pinevale Avenue, Reading, Mass., surveyed by Davis and Abbott, Civil Engineers, dated September 1930 and by reference made a part of this report.

We determine that no damages will be sustained by any person or persons in their property by reason of the taking to be made for this improvement.

No betterments are to be assessed for this improvement.

This laying out so made by us, we hereby report to the town for acceptance and recommend that said way shall thereafter be known as a public town way and named "Pinevale Avenue".

MARTIN B. HARTSHORN, Chairman

FRANK M. MERRILL

WILLIAM T. FAIRCLOUGH, Secretary

Board of Public Works

On motion of Martin B. Hartshorn, it was voted to accept said report of the Board of Public Works and adopt their recommendations.

Article 31. To see what action the Town will take regarding the installation of additional street lights on the public streets during 1931.

Municipal Light Board

Article 31. On motion of Henry R. Johnson, it was voted that the subject matter of Article 31 be referred to the Municipal Light Board, with authority to install such additional street lights as in its judgment are necessary and to make such changes in existing lights as may be advisable, the cost of same to be paid from the depreciation fund.

Article 32. To see if the Town will vote to extend and enlarge the Municipal Light Plant by the installation of underground ducts and cables, including the necessary manholes and service connections, also ornamental street lighting standards and lighting units, and remove the existing poles, overhead distribution wires and street lights on the following streets: Main Street between Green and Salem Streets, Harnden Street between Pleasant and Union Streets, Salem Street between Main and Lowell Streets, Woburn Street between Harnden and Lowell Streets, Lowell Street between Main and Sanborn Streets, and Ash Street from Haven Street southerly approximately 300 feet, and raise and appropriate therefor, by borrowing or otherwise, the sum of forty thousand dollars (\$40,000.00) or what it will do in relation thereto.

Municipal Light Board

Article 32. On motion of Henry R. Johnson, it was voted that the Municipal Light Board be authorized to extend and enlarge the Municipal Light Plant by the installation of underground ducts and cables, including the necessary manholes and service connections, also ornamental street lighting standards and lighting units and to remove the existing poles overhead distribution wires and street lights on the following streets: Main Street between Green and Salem Streets, Harnden Street between Pleasant and Union Streets, Salem Street between Main and Lowell Streets, Woburn Street between Harnden and Lowell Streets, Lowell Street between Main and Sanborn Streets, and Ash Street from Haven Street southerly approximately three hundred feet; and that there be raised and appropriated for the above purpose the sum of forty thousand dollars in addition to the amount which may be available in the Depreciation Fund, to be expended by the Municipal Light Board; and that the Treasurer be and he hereby is authorized and directed,

with the approval of the Selectmen to borrow said sum of forty thousand dollars, and to issue therefor bonds or notes of the town, such bonds or notes to be payable in accordance with the provisions of Chapter 44 of the General Laws and all amendments thereof and additions thereto, so that the whole loan shall be payable in not more than twenty years from the date of the first bond or note issued or at such earlier date as the Treasurer and Selectmen shall determine.

181 voted Yes, 87 voted No.

and it was declared by the Moderator as a two-thirds vote in favor of said motion.

Article 33. To see if the Town will vote to extend and enlarge the Municipal Light Plant by the installation of underground ducts and cables, including the necessary manholes and service connections, also ornamental street lighting standards and lighting units, and remove the existing poles, overhead distribution wires and street lights on Haven Street between Main and High Streets, and raise and appropriate therefor, by borrowing or otherwise the sum of twelve thousand dollars, (\$12,000.00) or what it will do in relation thereto.

Municipal Light Board

Article 33. It was moved by Henry R. Johnson that the Municipal Light Board be authorized to extend and enlarge the Municipal Light Plant by the installation of underground ducts and cables including the necessary manholes and service connections, also ornamental street lighting standards and lighting units and to remove the existing poles, overhead distribution wires and street lights on Haven Street between Main and High Streets and that there be raised and appropriated for the above purpose the sum of twelve thousand dollars, in addition to the amount which may be available in the Depreciation Fund to be expended by the Municipal Light Board. And the Treasurer be and he hereby is authorized and directed with the approval of the Selectmen, to borrow said sum of twelve thousand dollars and to issue therefor bonds or notes of the town, such bonds or notes to be payable in accordance with the provisions of Chapter 44 of the General Laws, and all amendments thereof and additions thereto, so that the whole loan shall be payable in not more than twenty years from the date of the first bond or note issued, or at such earlier date as the Treasurer and Selectmen shall determine.

151 voted Yes, 87 voted No.

Two-thirds not having voted in favor, it was declared not a vote.

Article 34. To see if the Town will vote to extend and enlarge the Municipal Light Plant by the installation of underground ducts and cables, including the necessary manholes and service connections, and remove the poles and overhead wires on Main and Ash Streets between Green Street and the power station, also to install ornamental street lighting standards and lighting units in place of the present street

light fixtures on Main Street between Green St. and the Boston and Main R. R. tracks, and raise and appropriate therefor, by borrowing or otherwise, the sum of thirty-eight thousand dollars (\$38,000.00) or what it will do in relation thereto.

Municipal Light Board

Article 34. It was moved by Henry R. Johnson that the Municipal Light Board be authorized to extend and enlarge the Municipal Light Plant by the installation of underground ducts and cables, including the necessary manholes and service connections, and to remove the poles and overhead wires on Main and Ash Streets between Green Street and the Power Station, also to install ornamental street lighting standards and lighting units in place of the present street light fixtures on Main Street, between Green Street and the Boston and Maine R. R. tracks; and that there be raised and appropriated for the above purpose the sum of thirty-eight thousand dollars, in addition to the amount which may be available in the Depreciation Fund, to be expended by the Municipal Light Board, and that the Treasurer be, and he hereby is authorized and directed, with the approval of the Selectmen, to borrow said sum of thirty-eight thousand dollars and to issue therefor bonds or notes of the Town, such bonds or notes to be payable in accordance with the provisions of Chapter 44 of the General Laws and all amendments thereof and additions thereto, so that the whole loan shall be payable in not more than twenty years from the date of the first bond or note issued or at such earlier date as the Treasurer and Selectmen shall determine.

7 voted Yes, 161 voted No.

and it was declared not a vote, two-thirds not having voted in favor of the motion.

Article 35. To see if the Town will vote to extend and enlarge the Municipal Light Plant by building an addition to the power station approximately twenty feet wide and forty-five feet long, for a switchboard and regulator room, and raise and appropriate by borrowing or otherwise, the sum of eight thousand dollars (\$8,000.00) therefor, or what it will do in relation thereto.

Municipal Light Board

Article 35. On motion of Henry R. Johnson, it was voted to indefinitely postpone this article.

Article 36. To see if the Town will vote to extend and enlarge the Municipal Light Plant by the installation of a ten panel switchboard of modern type, and raise and appropriate, by borrowing or otherwise, the sum of twenty-five thousand dollars (\$25,000.00) therefor, or what it will do in relation thereto.

Municipal Light Board

Article 36. On motion of Henry R. Johnson, it was voted to indefinitely postpone this article.

Article 37. To see if the Town will raise and appropriate the sum of eight hundred dollars (\$800.00) to purchase a portable pump for the

use of the Forest Warden, or what it will do in relation thereto.

O. O. Ordway

Article 37. On motion of Orville O. Ordway, it was voted that the Town raise and appropriate the sum of eight hundred dollars for the purchase of a portable pump for the use of the Forest Warden.

\$300.00

Article 38. To see if the Town will raise and appropriate the sum of two thousand dollars (\$2,000.00) to place the wires of the fire alarm and police signal systems underground on Pleasant Street from the central fire station to Main Street, on Main Street from Washington Street to north of Salem Street, Woburn Street from Main Street to Sanborn Street and on Lowell Street from Woburn Street to Sanborn Street, or what it will do in relation thereto.

Hugh L. Eames and others

Article 38. On motion of Hugh L. Eames, it was voted that the sum of two thousand dollars be raised and appropriated to place the Fire Alarm and Police Signal Wires under ground on Pleasant Street from the Central First Station to Main Street, on Main Street from Washington Street to north of Salem Street, on Woburn Street from Main Street to Sanborn Street and on Lowell Street from Woburn Street to Sanborn Street.

\$2,000.00

Article 39. To see if the Town will raise and appropriate the sum of three hundred and fifty dollars (\$350.00) for the purpose of locating a fire alarm box at the corner of School and Dudley Streets with sub-stations in the Opportunity School and the Grouard House, or what they will do in relation thereto.

Hugh L. Eames and others

Article 39. On motion of Hugh L. Eames, it was voted that the sum of three hundred and fifty dollars be raised and appropriated for the purpose of locating a fire alarm box at the corner of School and Dudley Streets with sub-stations in the Opportunity School and the Grouard House.

\$350.00

Article 40. To see if the Town will vote to accept the report of the Athletic Field Committee to authorize a continuance of such committee for the purpose of further investigation and plan of development for Athletic Field to be located in Birch Meadow, so called, estimate the cost thereof and report at the next annual Town Meeting; and that the sum of five hundred dollars (\$500.00) be raised and appropriated therefor, and the unexpended balance of the 1930 appropriation be transferred and added to said \$500 for the use of said committee, or what it will do in relation thereto.

Athletic Field Committee

Article 40. On motion of H. Raymond Johnson, it was voted that the report of the Athletic Field Committee be and the same is hereby accepted and the committee be authorized to continue in office for the purpose of further investigation and plan of development for an Ath-

letic Field to be located in Birch Meadow, so-called, to estimate the cost thereof and to report at the next annual town meeting, and that the sum of five hundred dollars be and is hereby raised and appropriated therefor and the Town Accountant be authorized to transfer the unexpended balance of the 1930 appropriation to be added to said \$500.00 for the use of said Committee.

Article 41. To see if the Town will vote whether or not licenses for motion pictures on Sunday be granted.

Edgar Norman Hunt and others

Article 41. On motion of E. Norman Hunt, that it is the sense of this meeting that the Selectmen ought to grant licenses for moving pictures on Sunday.

This motion was not adopted.

Article 42. To see if the Town will vote to raise and appropriate the sum of seventy-five dollars (\$75.00), or some other amount, and the Selectmen appoint a director, the money to be spent in the town in the furtherance of and the director to serve in co-operation with the Middlesex County Trustees for County Aid to Agriculture in the Work of the Middlesex County Extension Service, under the provisions of Section 40-45, Chapter 128 General Laws of Massachusetts.

Rolland L. Perry, Director

Article 42. On motion of Rolland L. Perry, it was voted that the Town raise and appropriate the sum of seventy-five dollars and the Selectmen appoint a Director, the money to be spent in the Town for the furtherance of and the Director to serve in co-operation with the Middlesex County Trustees for County Aid to agriculture in the work of the Middlesex County Extension Service, under provisions of Section 40-45, Chapter 128, General Laws. \$75.00

Article 43. To see if the Town will vote to re-zone the area of a certain parcel of land situated on the easterly side of Main Street, Reading, Massachusetts, bounded as follows:

Beginning at the Southwesterly corner of the granted premises on the Easterly side of Main Street at the line dividing the Town of Reading from the Town of Stoneham.

thence the boundary line runs Northerly by said Main Street, two hundred and thirty-one (231) feet, more or less to land now or formerly of Capen;

thence turning and running Easterly by land of said Capen one hundred and seventy-six and 88-100 (176.88) feet to lot No. 4 on plan hereinafter referred to;

thence turning and running Southerly by said lot No. 4, one hundred (100) feet;

thence turning and running Southerly crossing a proposed street shown on said plan to the Northwest corner of lot No. 7 on said

plan, ninety-nine and 25-100 (99.25) feet to land of the Town of Stoneham;

thence turning and running Westerly, one hundred forty-two and 26-100 (142.26) feet to the point of beginning.

Said premises are shown on a plan of land in Reading, Mass., belonging to N. M. Carmen, dated October 1, 1925.

So that the entire area described above shall be changed from a multiple residence district and a single residence district to a business district, or what it will do in relation thereto.

Arthur P. French and others

Article 43. On motion of John L. Devaney, it was voted to indefinitely postpone this article.

Article 44. To see if the Town will raise and appropriate the sum of five hundred dollars (\$500.00) for further development of the Town Forest or what it will do in relation thereto.

Committee on Re-forestation

Article 44. On motion of Leland W. Kingman, it was voted that the Town raise and appropriate the sum of five hundred dollars for the further development of the Town forest. \$500.00

Article 45. To see if the Town will authorize and instruct the Board of Selectmen to renew the present lease for suitable headquarters for Reading Post No. 62 of the American Legion, for a further term of one year, and will raise and appropriate therefor the sum of one thousand dollars (\$1,000.00), or what it will do in relation thereto.

Irving C. Austin and others

Article 45. On motion of Albert N. Leman, it was voted that the Board of Selectmen be and they hereby are authorized, empowered and directed to renew or extend the present lease providing for suitable quarters for Reading Post No. 62 of the American Legion for a further term of one year and to sign and execute said renewal and that the sum of one thousand dollars be and hereby is raised and appropriated therefor as rent for such premises. \$1,000.00

Article 46. To see if the Town will raise and appropriate the sum of four hundred dollars (\$400.00) for Child Welfare Work, to be expended under the direction of the Reading Visiting Nurse Association, and the Board of Health or what it will do in relation thereto.

Inez H. Damon and others

Article 46. On motion of Arthur W. Coolidge, it was voted to raise and appropriate the sum of four hundred dollars for Child Welfare Work, to be expended under the direction of the Reading Visiting Nurse Association and the Board of Health. \$400.00

Article 2. On motion of W. Homer Morrison this article was taken from the table.

On motion of W. Homer Morrison, it was voted to accept the

reports of the various Town Officers as printed.

On motion of Leon G. Bent, it was voted to adjourn sine die.

MILLARD F. CHARLES, Town Clerk.

SPECIAL TOWN MEETING

Security Hall, Woburn St., August 10, 1931.

Pursuant to the warrant a town meeting was held and was called to order at the time specified in the warrant by the Moderator, Charles P. Howard. The Town Clerk partially read the warrant when on motion of W. Homer Morrison, it was voted to dispense with further reading except the Constable's return. The Constable's return was duly read and the town meeting was duly declared open for business.

Article 1. To hear and act on the reports of town officers and special committees and determine what instruction will be given town officers and special committees.

Article 1. On motion of W. Homer Morrison, it was voted to lay this article on the table.

Article 2. To see how much money the town will raise and appropriate for Aid, Board and Care, or what it will do in relation thereto.
(Board of Public Welfare)

Article 2. On motion of Mary F. Daniel, it was voted to raise and appropriate eight thousand dollars for Aid, Board and Care.
(\$8,000.00).

Article 3. To see how much money the town will raise and appropriate for the Reserve Fund or what it will do in relation thereto.
(Board of Selectmen).

Article 3. On motion of W. Homer Morrison, it was voted that three thousand dollars be raised and appropriated for Soldiers' Relief.
(\$3,000.00).

Article 4. To see how much money the town will raise and appropriate for the Reserve Fund or what it will do in relation thereto.

Article 4. On motion of Robert B. Mount, it was voted to lay this article on the table.

Article 5. To see if the town will vote to accept the report of the Board of Public Works upon laying out as a public highway, Middlesex Avenue Extension, such highway being laid out in accordance with plans duly approved by the Board of Survey and filed in the office of the Town Clerk in accordance with the statutory requirements and to see if the town will accept the public highway laid out by the Board of Public Works, and hereafter to be known as Glen Road, or what it will do in relation thereto. (Board of Public Works).

Article 5. Laying out of Glen Road.

Commonwealth of Massachusetts, Middlesex s. s.,

Town of Reading, August 3, 1931.

Office of the Board of Public Works.

The Board of Public Works of the town of Reading having determined and adjudged that common convenience and necessity require that a town way be laid out as and in the location hereinafter described, having complied with all requirements of law relating to notice to the owners of land thereof and of a hearing thereon, and having met at the time and place appointed for such hearing and then and there heard all persons present who desired to be heard, have laid out as a town way for the use of the town running easterly from Summer Avenue to its intersection with a private way known as Hancock Street Extension, substantially in the location of the private way known as Middlesex Avenue Extension. The boundaries and measurements of said way as so laid out are as follows:

The northerly line of said Glen Road commences at a point on the easterly side line of said Summer Avenue at land of Annie L. Canty et al. at a point of curve, said point being S. 16 degrees-45'-00" E. a distance of 213.74 feet measured along the easterly side of said Avenue from a stone bound marking the southeasterly corner of said Summer Avenue and Mineral Street.

From thence the said northerly line runs with a curve to the left on a radius of ten feet a length of 15.87 feet across land of said Canty and others to a point of tangent:

Thence N. 72 degrees—19'—00" E. by land of said Canty et al., land of John M. and Mary G. Widell, Charles E. Reck, Lillian F. Field, Mary F. Muse, Laura W. Adams, Catherine W. Reilly, Philip Reilly, other land of Catherine Reilly and land of Richard Dooley a distance of 660.72 feet to a point of curve.

Thence with a curve to the left on a radius of 20 feet a length of 35.14 feet across land of the said Dooley to a point of tangent on the westerly side line of said Hancock Street Extension and at the end of this layout.

The southerly line of said Glen Road is parallel with and forty feet distant from the above-described northerly line.

Said lines being more fully shown on a Plan entitled "Plan and Profile of Glen Road" made under date of February, 1931 by Davis and Abbott, Civil Engineers, Reading, Mass., said plan being a part of this description.

We determine that no damages will be sustained by any person or persons in their property by reason of the taking to be made for this improvement. No betterments are to be assessed for this improvement.

The laying out so made by us we hereby report to the town for

acceptance and recommend that said way shall thereafter be known as a public town way and named "Glen Road".

MARTIN B. HARTSHORN, Chairman
HAROLD W. PUTNAM,
WILLIAM T. FAIRCLOUGH,
FRANK M. MERRILL,

Board of Public Works.

On motion of Martin B. Hartshorn, it was voted to accept and adopt the report of the Board of Public Works on the laying out of Glen Road.

Article 6. To see if the Town will vote to accept the report of the Board of Public Works upon laying out as a public highway of a private way heretofore known as Hancock Street Extension, such highway being laid out in accordance with plans duly approved by the Board of Survey and filed in the office of the Town Clerk in accordance with the statutory requirements and to see if the town will accept the public highway laid out by the Board of Public Works, and heretofore known as Hancock Street Extension and to see if the town will authorize said Board to take land for the purpose of said way and to raise and appropriate the sum of one hundred dollars to pay the expense of such laying out including all land damages and taking incident thereto or what it will do in relation thereto.

Board of Public Works.

Article 6. Laying out of Hancock Street Extension.

Commonwealth of Massachusetts, Middlesex s. s.,

Town of Reading,

Office of the Board of Public Works, Aug. 3, 1931.

The Board of Public Works of the town of Reading having determined and adjudged that common convenience and necessity require that a town way be laid out as and in the location hereinafter described having complied with all requirements of law relating to notice to the owners of land thereof and of a hearing thereon and having met at the time and place appointed for such hearing and then and there heard all persons present who desired to be heard have laid out as a town way for the use of the town running in a southeasterly direction from a town way known as Mineral Street to its intersection with a town way known as King Street. The boundaries and measurements of said way as so laid out are as follows:

The westerly line of said Hancock Street Extension commences at a point on the southerly side line of said Mineral Street said point being N. 72 degrees—18'—30" E. a distance of 640.64 feet from the southeasterly corner of said Mineral Street and Summer Avenue:

From thence the said westerly line runs with a curve to the right on a radius of 10 feet a length of 13.85 feet across land of Jesse S. Thorn to a point of tangent:

Thence S. 28 degrees—21'—30" E. by land of said Thorn land now or formerly of Lillian G. Wild, Richard Dooley across the easterly end of a private way known as Middlesex Avenue Extension but now called Glen Road by land of B. J. Lehan, E. V. Kerans and land of Grace O. Kimball a distance of 469.85 feet to point of curve:

Thence with a curve to the right on a radius of 20 feet a length of 34.59 feet across land of said Kimball to a point of tangent on the westerly side line of said King Street and at the end of this layout:

The easterly line of said Hancock Street Extension is parallel with and forty feet distant from the above-described westerly line, running across land of the Boston and Maine Railroad and thence by land of the John Hickey Estate.

The above-described lines being more fully shown on a plan entitled, "Extension of Hancock Street" made under date of May, 1931 by Davis and Abbott, Civil Engineers, Reading, Mass., said plan being a part of this description.

We award damages to the Boston and Maine Railroad by reason of the taking to be made for this improvement, in the sum of one hundred dollars, and we determine that no damages will be sustained by any other person or persons in their property by reason of the taking to be made for such improvement.

No betterments are to be assessed for this improvement.

The laying out so made by us we hereby report to the town for acceptance and recommend that said way shall thereafter be known as a public town way and named "Hancock Street".

MARTIN B. HARTSHORN, Chairman,
HAROLD W. PUTNAM,
WILLIAM T. FAIRCLOUGH,
FRANK M. MERRILL,

Board of Public Works.

On motion of Martin B. Hartshorn, it was voted that the town accept and adopt the report of the Board of Public Works on the laying out of extension of Hancock Street, and that said Board be, and hereby is authorized to take lands for the purpose of said way, and to appropriate to pay the expense of such takings and land damages incident thereto, the sum of one hundred dollars, by transferring from the unexpended balance of the annual appropriation for the construction, maintenance and repairs of highways previously voted by the town at the annual meeting held March, 1931, and that the Town Accountant be and hereby is ordered to make this transfer.

Article 7. To see if the town will vote to accept the report of the Board of Public Works on the relocating or altering of Summer Avenue and Willow Street through land of Roderick M. and John W. Hogan, Commencing at stake at a point of curve in the northerly

side line of Summer Avenue and at land of Roderick M. and John W. Hogan, the line runs with a curve of 311.50 foot radius a length of 120.62 feet by the said northerly line of Summer Avenue to a stone bound at the junction of Willow Street: Thence N. 13 degrees—3'—10" E. by the easterly side line of said Willow Street a distance of 89.72 feet: Thence by a curve in a southeasterly direction the radius of which is 40 feet a length of 80.68 feet across land of the said Roderick M. and John W. Hogan: Thence N. 77 degrees—29'—30" E. a distance of 42.58 feet to the stake at the point of beginning, containing 1,676 square feet. The above-described lines being more fully shown on a plan entitled, "Plan of proposed changes at the Junction of Summer Ave., West and Willow Streets" made under date of June, 1931 by Davis and Abbott, Civil Engineers, Reading, Mass., said plan being a part of this description.

Such highways being relocated or altered in accordance with plan duly approved by the Board of Public Works and filed in the office of the Town Clerk in accordance with the statutory requirements; and to see if the town will accept the relocation or alteration of Summer Avenue and Willow Street as shown on said plan, or what it will do in relation thereto.

Board of Public Works

Article 7. Relocation or Alteration of Summer Avenue and Willow Street.

Commonwealth of Massachusetts, Middlesex s. s.,
Town of Reading, August 3, 1931.

The Board of Public Works of the Town of Reading having determined and adjudged that common convenience and necessity require that the public highways be laid out, relocated or altered as and in the location hereinafter described, having complied with all requirements of law relating to notice to owners of land thereof and of a hearing thereon, and having met at the time and place appointed for such hearing and then and there heard all persons present who desired to be heard, have laid out, relocated or altered as public highways for the use of the town by rounding the corner of Summer Avenue and Willow Street through land of Roderick M. and John W. Hogan. The boundaries and measurements of said public highways as so laid out, relocated or altered are as follows:

Commencing at a stake at a point of curve in the northerly side line of Summer Avenue and at land of Roderick M. and John W. Hogan, the line runs with a curve 311.50 feet radius by a length of 120.62 feet by the said northerly line of Summer Avenue to a stone bound at the junction of Willow Street:

Thence N. 13 degrees—03'—10" E. by the easterly side line of said Willow Street a distance of 89.72 feet:

Thence by a curve in a southeasterly direction, the radius of which is forty feet, a length of 80.68 feet across land of the said Roderick M.

and John W. Hogan:

Thence N. 77 degrees—29'—30" E. a distance of 42.58 feet to the stake at the point of beginning, containing 1,676 square feet.

The above described lines being more fully shown on a plan entitled "Plan of Proposed Changes at the junction of Summer Avenue, West and Willow Sts. made under the date of June, 1931 by Davis and Abbott, Civil Engineers, Reading, Mass., said plan being a part of this description.

We determine that no damages will be sustained by any person or persons in their property by reason of the taking to be made for this improvement.

No betterments are to be assessed for this improvement.

This laying out, relocation or alteration so made by us we hereby report to the town for acceptance and recommend that when this report is accepted and adopted by the town that said public highways shall thereafter be laid out, relocated or altered in accordance with said plan.

MARTIN B. HARTSHORN, Chairman
HAROLD W. PUTNAM,
WILLIAM T. FAIRCLOUGH,
FRANK M. MERRILL.

Board of Public Works

On motion of Martin B. Hartshorn, it was voted that the town accept and adopt the report of the Board of Public Works on the alteration or relocation of the public highways at the junction of Summer Avenue and Willow Street.

Article 8. To see if the town will vote to accept the report of the Board of Public Works on the relocating or altering of High Street and Lowell Street, such highway being relocated or altered in accordance with the statutory requirements, and to see if the town will accept the relocation or alteration of High Street and Lowell Street as shown on said plan, or what it will do in relation thereto.

Board of Public Works

Article 8. Relocation or Alteration of High Street and Lowell Street.

Commonwealth of Massachusetts, Middlesex s. s.,
Town of Reading, August 3, 1931.

The Board of Public Works of the Town of Reading having determined and adjudged that common convenience and necessity require that the public highways be laid out, relocated or altered, as and in the location hereinafter described, having complied with all requirements of law relating to notice to owners of land thereof and of a hearing thereon, and having met at the time and place appointed for such hearing and then and there heard all persons present, who desired to be heard, have laid out, relocated or altered as public highways for

the use of the Town, the westerly intersection of High Street and Lowell Street. The boundaries and measurements of said public highways as so laid out, relocated or altered are as follows:

Beginning at a point on the westerly side line of said High Street at a stone bound marking the southerly end of a curve of 257.71 feet radius as shown on a plan of said High Street dated, November, 1928, duly approved and recorded by the Town Clerk under date of March 11, 1929 and at land of Martin B. Hartshorn:

From thence the line runs S. 24 degrees—30' E. by the present westerly side line of said High Street as shown on said plan, a distance of 38.61 feet to a new point of curve: Thence northwesterly by a curve of 470.00 feet radius through land of the said Hartshorn and land of John F. McKenna a length of 168.37 feet to a new point of tangent on the westerly side line of said Lowell Street.

Thence S. 45 degrees—01'—30" E. by the present westerly side line of said Lowell Street, a distance of 32.69 feet to a stone bound marking the northerly terminus of the curve of 257.71 feet radius above referred to and the end of said High Street as shown on said plan:

Thence southerly by the curve above mentioned of 257.71 feet radius a length of 97.90 feet to the stone bound at the point of beginning.

Containing a total area of 303 square feet of which 285 square feet is from the Hartshorn land and the balance of 18 square feet is from the land of said McKenna.

The above-described lines being more fully shown on a plan made under the date of August, 1931 by Davis and Abbott, Civil Engineers, Reading, Mass., said plan being a part of this description.

We determine that no damages will be sustained by any person or persons in their property by reason of the taking to be made for this improvement.

No betterments are to be assessed for this improvement.

This laying out, relocation or alteration so made by us we hereby report to the town for acceptance and recommend that when this report is accepted and adopted by the town that said public highways shall thereafter be laid out, relocated or altered in accordance with said plan.

MARTIN B. HARTSHORN, Chairman,
HAROLD W. PUTNAM,
WILLIAM T. FAIRCLOUGH,
FRANK M. MERRILL.

Board of Public Works.

On motion of Martin B. Hartshorn it was voted that the town accept and adopt the report of the Board of Public Works on the relocation or alteration of the westerly intersection of High Street and Lowell Street.

Article 9. To see if the town will raise and appropriate the sum of one thousand dollars for the further development of the playground in Birch Meadow or what it will do in relation thereto.

Board of Public Works

Article 9. On motion of Harold W. Putnam it was voted that the sum of one thousand dollars be raised and appropriated for the further development of the playground in Birch Meadow. \$1,000.00

Article 10. To see if the Town will raise and appropriate the sum of two hundred dollars for work incident to the further development of the town forest, or what it will do in relation thereto.

Town Forest Committee

Article 10. On motion of L. W. Kingman, it was voted that two hundred dollars be raised and appropriated for work incident to the further development of the town forest.

Article 11. To see if the town will raise and appropriate the sum of twenty-eight dollars to pay for medical services of Herbert L. Robertson on account of injuries received in the line of duty at a fire on May 22, 1931, or what it will do in relation thereto.

O. O. Ordway, Chief of Fire Dept.

Article 11. On motion of W. Homer Morrison, it was voted that twenty-eight dollars be raised and appropriated to pay for medical services for Herbert L. Robertson on account of injuries received in line of duty at a fire on May 22, 1931.

On motion of W. Homer Morrison, it was voted to adjourn sine die.

MILLARD F. CHARLES, Town Clerk.

NOTICE TO PARENTS, HOUSEWIVES, PHYSICIANS AND MIDWIVES

**Your Attention is Called to the Sections Below Taken from the Revised
Laws—Blank Forms for Return of Births Can be Obtained of
the Town Clerk**

SECTION 3, CHAPTER 444, ACTS 1897

Section 3. Physicians and midwives shall on or before the fifth day of each month report to the clerk of each city or town a correct list of all children born therein during the month next preceding, at whose birth they were present, stating the date and place of each birth, the name of the child, if it has any, the sex and color of the child, the name, place of birth and residence of the parents, the maiden name of the mother, and occupation of the father. If the child is illegitimate the name of the father shall not be stated, unless at the joint request in writing of both father and mother, which request shall be filed with the returns of births. The fee of the physicians or midwives shall be twenty-five cents for each birth so reported, and shall be paid by the city or town in which the report is made, upon presentation of certificate from the city or town clerk, stating that said births have been reported in conformity with the requirements of this section. Any physician or midwife neglecting to report such list for ten days after it is due shall for each offense forfeit a sum not exceeding twenty-five dollars.

SECTION 6, CHAPTER 444, ACTS 1897

Section 6. Parents and householders shall within forty (40) days after the date of a birth occurring in his house give notice thereof or cause such notice to be given to the clerk of the city or town in which such child is born.

MILLARD F. CHARLES, Town Clerk.

SPORTING LICENSES IN 1931

| | | | |
|--|---|----|--------|
| 253 | Sporting Licenses at \$2.75 | \$ | 695.75 |
| 9 | Trapping Licenses at \$5.25 | | 47.25 |
| 9 | Minor Trapping Licenses at \$1.25 | | 11.25 |
| 3 | Duplicate Licenses at \$.50 | | 1.50 |
| Total | | \$ | 755.75 |
| 271 | Licenses at 25c, Town Clerk's Fee | \$ | 67.75 |
| Balance due Fish and Game Commission | | \$ | 688.00 |

The following payments were paid:

| | |
|--------------------|-----------|
| Feb. 11 Paid | \$ 107.50 |
| March 4 Paid | 15.00 |
| April 7 Paid | 20.00 |
| May 6 Paid | 110.00 |
| June 10 Paid | 80.00 |
| July 22 Paid | 55.00 |
| Aug. 12 Paid | 35.00 |
| Sept. 9 Paid | 25.00 |
| Oct. 5 Paid | 20.00 |
| Nov. 16 Paid | 178.50 |
| Dec. 1 Paid | 47.00 |
| Jan. 9 Paid | 5.00 |
| | <hr/> |
| | \$ 698.00 |

DOGS LICENSED, 1931

June 1, 1931:

| | |
|------------------------------------|-----------|
| 370 Males at \$2.00 | \$ 740.00 |
| 48 Females at \$5.00 | 240.00 |
| 2 Kennel Licenses at \$25.00 | 50.00 |

| | |
|-------------------------------------|------------|
| Total | \$ 1030.00 |
| Town Clerk's fees, 420 at 20c | \$ 84.00 |

June 1, 1931, Paid County Treasurer

\$ 946.00

Dec. 1, 1931:

| | |
|--|-----------|
| 175 Males at \$2.00 | \$ 350.00 |
| 47 Females at \$5.00 | 235.00 |
| 2 Kennel Licenses at \$25 and \$50 | 75.00 |

| | |
|---------------------------|-----------|
| Total | \$ 660.00 |
| 224 Licenses at 20c | \$ 44.80 |

Dec. 1, 1931, Paid County Treasurer..... \$ 615.20

| | |
|---------------------------------------|------------|
| Total Paid County Treasurer | \$ 1561.20 |
| Total number of Licenses Issued | 644 |

MILLARD F CHARLES,
Town Clerk

BIRTHS REGISTERED IN TOWN OF READING FOR YEAR 1931

| Date | Name | Parents |
|------|------------------------------------|-----------------------------|
| Jan. | | |
| 2 | Vierkant | Frank W. and Marion D. |
| 3 | Maynard Gardner Clemons | Maynard G. and Mary B. |
| 10 | Malcolm William Hubbard | Simon D. and Mary D. |
| 10 | Mary Theresa Lorraine Theriault | Nelson and Lillian B. |
| 10 | | |
| 12 | Richard Thomas Sillars | Elmer V. and Gertrude M. |
| 12 | Joan Estelle Wallace | Ray H. and Alice H. |
| 13 | Richard Dickinson | Norman L. and Gladys R. |
| 14 | Dorothy Joan Borthwick | Walter W. and Louise M. |
| 20 | Donald Peter Arsenault | Peter J. and Obeline P. |
| 22 | Ruth Evelyn Mace | Junius E. and Ida R. |
| 23 | Richard George Flint | Clarence E. and Ethel C. |
| 29 | Barbara Ann Bitzer | William L. and Greta L. |
| 31 | Whitcomb | Clarence E. and Kathleen N. |
| Feb. | | |
| 1 | George William Maling | John C. and Katherine S. |
| 7 | Grace Marion Horrigan | Michael B. and Grace C. |
| 8 | Theodore Kenneth Campbell | Theodore B. and Doris R. |
| 12 | Jeanette McKenna | Joseph F. and Alice J. |
| 14 | Joanna Evelyn Smith | Thomas W. and Emily C. |
| 20 | Shirley Louise Runge | Carl O. and Dorothy S. |
| 27 | Frank Travers Berry, Jr. | Francis T. and Marietta M. |
| Mar. | | |
| 5 | Mary Louise Hatfield | William and Edna W. |
| 7 | Raymond Joseph Meuse | William E. and Edith C. |
| 8 | Edward Anthony Ryan, Jr. | Edward A. and Gladys H. |
| 10 | Joan Rowell | Walter L. and Mabel T. |
| 12 | Robert Donald Moore | Albert and Mary F. |
| 13 | | |
| 15 | George William Blanchard, Jr. | George W. and Millicent M. |
| 16 | Lawrence Charles Grant | John E. and Florence T. |
| 17 | Richard William McSheehy | Harold J. and Bertha C. |
| 26 | Virginia Baisley | Charles R. and Dorothy R. |
| 27 | Richard Fitzgerald | Maurice and Pauline D. |

BIRTHS REGISTERED IN TOWN OF READING FOR YEAR 1931

| Date | Name | Parents |
|-------|------------------------------|-----------------------------|
| April | | |
| 3 | Nancy Fay Middleton | Charles F. and Alberta S. |
| 7 | Doris Gwendolyn Lane | Harry S. and Gladys N. |
| 12 | Jeanne Frances Doucette | Clarence and Frances S. |
| 15 | Barbara Jean Bertwell | Samuel L. and Florence R. |
| 16 | John Peter Greeley | Francis and Mary M. |
| 20 | Shirley May Young | Kenneth C. and Winnie E. |
| 27 | Charles Francis Parrett, Jr. | Charles F. and Ruth R. |
| 30 | James Leo McMahon | Frederick J. and Delina D. |
| 30 | Jean Elizabeth Meuse | Henry J. and Minnie D. |
| May | | |
| 1 | Leon James Blackwell | Wilbur W. and Charlotte D. |
| 1 | Jean Marie Colford | Alfred J. and Annie B. |
| 11 | Robert McCarthy | John J. and Caroline H. |
| 13 | John Kenneth Campbell | Donald and Ruth F. |
| 13 | Marcia Ann Chipman | Henry A. Jr. and Phyllis M. |
| 14 | Marion Josephine Beauchamp | Roland and Nellie S. |
| 15 | Gwendolyn Dean | Robert L. and Mildred S. |
| 29 | Mary Elinor Sullivan | Charles and Bertha D. |
| 30 | John Pote Wait | Charles R. and Gladys A. |
| June | | |
| 1 | Elizabeth Carnes | Harold A. and Helen C. |
| 4 | David Irving Austin | Irving C. and Thelma J. |
| 12 | Shirley Edith Bowie | Everett D. and Ethel T. |
| 13 | David Alan Nelson | Dewey and Ruth B. |
| 14 | Ann Cecilia Doucette | Edward and Marion M. |
| 15 | Norman Victor Balcom | Howard A. and Madeline N. |
| 16 | George Albert Peters | John L. and Josephine G. |
| 22 | William Albert Isbill | Albert and Doris S. |
| 24 | Joseph Harvey Racine | Wilfred J. and Mary G. |
| 27 | Arthur M. Curtin, Jr. | Arthur M. and Margaret G. |
| 27 | Marian Lee Scanlon | John J. and Marguerite D. |
| 29 | Shirley Louise Wooldridge | Chester M. and Viola N. |
| July | | |
| 1 | Carl Vernon Wells, 2d. | Carl V. and Marjorie J. |
| 4 | Joan Elizabeth Spillane | Timothy J. and Arline D. |

BIRTHS REGISTERED IN TOWN OF READING FOR YEAR 1931

| Date | Name | Parents |
|-------|-----------------------------|-----------------------------|
| July | | |
| 6 | Robert Earl Owen | Harold L. and Alice A. |
| 8 | Marilyn Anne Castine | Wilbur F. and Catherine L. |
| 8 | Fred Joseph Neiss | Frederick J. and Dorothy S. |
| 8 | Howard Arthur Surette | Joseph M. and Bertha L. |
| 9 | Mary Patricia MacMillan | Edward J. and Catherine H. |
| 10 | Laurence Carleton Shepherd | Francis G. and Jennie S. |
| 15 | Bertil Idof Johnson | Anders I. and Louise H. |
| 22 | Robert Stephen Hegarty | Michael J. and Anna F. |
| 23 | William Henry Muise | Benjamin and Sylvia D. |
| 27 | Leonard Raymond Muise | George A. and Hilda M. |
| 30 | Alton Everett Brown | Robert M. and Greta S. |
| Aug. | | |
| 1 | William Alexander Foley | William W. and Estelle L. |
| 2 | Julia Josephine Miller | Joseph and Sophie D. |
| 3 | Richard Albert Surette | Anselm E. and Bridget D. |
| 4 | Everett Sidney Wheeler | Sidney S. and Florence K. |
| 7 | Anne Mary Maguire | John F. and Margaret R. |
| 8 | Christine Ann Gadbois | Albert D. and Rose F. |
| 8 | Robert David Muse | John P. and Mary A. |
| 13 | George Shackford Zanni, Jr. | George S. and Eleanor M. |
| 20 | Reginald Julian D'Entremont | Edmund S. and Mary D. |
| 23 | Anne Marie O'Malley | John J. and Annie C. |
| 29 | | |
| 29 | Philip Paul Kelley | Arthur W. and Genevieve K. |
| 30 | Clifton Melvin Opland | Alfred N. and Lillian S. |
| 31 | Robert Paul Jones | William F. and Margarite H. |
| Sept. | | |
| 2 | Pauline Anne Doucette | Eli J. and Mary M. |
| 2 | Priscilla Anne Dow | Philip L. and Ida B. |
| 4 | Mary Georgine Muise | John A. and Josephine F. |
| 5 | Elizabeth Louise Curtis | George E. and Harriet D. |
| 6 | Patricia Anne Connolly | William A. and Katherine C. |
| 6 | Deborah Williams | Samuel H. and Elizabeth C. |
| 9 | Lloyd Hamilton Gaw | George and Jennie C. |
| 10 | Paul Vincent Surette | Leo A. and Alethea A. |
| 13 | Patricia Frances Andrews | Jacob S. and Beatrice S. |
| 13 | John Anthony Smith | Melvin F. and Mary R. |
| 16 | Lorraine Marie Doucette | Charles and Eva D. |
| 17 | Bernard Joseph Cox | Herbert and Margaret M. |

BIRTHS REGISTERED IN TOWN OF READING FOR YEAR 1931

| Date | Name | Parents |
|-------|---------------------------|----------------------------|
| Sept. | | |
| 17 | Katherine Weston Roberts | Carl W. and Vera B. |
| 19 | Donald Charles Murray | Thomas C. and Mildred G. |
| 22 | Richard Daniel Nickerson | Blanchard S. and Helen H. |
| 23 | Jean Elizabeth Grenier | Eugene and Florence W. |
| 24 | Barbara Anne Ruggles | Carter K. and Doris S. |
| 25 | | |
| 27 | Frank Richard Hadley | Leslie C. and Annie D. |
| 29 | Betty Alden Goldsmith | A. Alden and Jennie J. |
| 30 | Elizabeth Taber Chadwick | Norman S. and Barbara B. |
| Oct. | | |
| 2 | Charlotte Lucille Nelson | Charles L. and Zelda A. |
| 9 | John Osgood McSheehy | George P. and Isabel M. |
| 12 | Ronald Edward Meuse | Steven E. and Edith D. |
| 14 | Clarence Albert White | Harry E. and Nellie H. |
| 19 | Phyllis Louise Mahoney | John E. and Frances M. |
| 19 | Phyllis Mary Wells | Arthur and Celestine M. |
| 24 | Gerald Sydney Lassell | Sydney H. and Dorothy L. |
| 24 | Raymond Walter Theriault | Amos M. and Bernice G. |
| 26 | Shirley Helene Grant | Addison W. and Alice S. |
| Nov. | | |
| 1 | Richard Spence Bateman | Squire W. and Harriet W. |
| 2 | Gerald Richard Griffin | James J. and Beatrice F. |
| 2 | Deborah Upton | Joshua D. and Helen C. |
| 5 | Bartholomew Joseph Valido | Rosario and Blanche G. |
| 6 | Nancy Cullinane | Michael F. and Florence M. |
| 7 | George Henry Farr | Merle W. and Edna G. |
| 15 | Muriel Louise Harris | Arthur L. and Helen C. |
| 16 | Alfred Schlittler | Kaspar and Eleanor H. |
| 30 | Nancy Ann Doucette | Douglas P. and Gertrude M. |
| 30 | Evelyn Theresa Thornton | Francis J. and Evelyn H. |
| Dec. | | |
| 4 | | |
| 10 | Mary Lydia Gibson | Robert and Jane B. |
| 11 | Marjorie Palmer Delano | William Jr. and Louise D. |
| 11 | Lois McDowell | Ralph A. and Rachel H. |
| 15 | Carl David Arsenault | Joseph and Mary M. |
| 27 | Charles John Gallant | John A. and Frances D. |
| 31 | Ernest Clifton Whittredge | Leonard C. and Marie H. |

BIRTHS REGISTERED IN TOWN OF READING FOR PREVIOUS
YEARS

1902

Oct.

9 Dean Winthrop Byers

David W. and A. LeEtte P.

1907

Dec.

8 Natalie Burnham

W. Franklin and Florence J.

1908

Dec.

4 George Raymond White

Peter J. and Amelia H.

1912

Jan.

3

1925

Feb.

11 Constance Virginia Baxter

William G. and Beatrice B.

1930

Nov.

22 Anthony

Arthur and Isabella S.

MARRIAGES REGISTERED IN TOWN OF READING, YEAR 1931

| Date | Names | Age | Occupation | Residence |
|---------------|-----------------------------|-----|------------------------------|------------------|
| July 31, 1929 | Arthur H. Choate | 49 | Scientific Research | Reading |
| | Edith A. Killam | 45 | At home | Reading |
| Jan. | | | | |
| 1 | Norman Paul MacInnis | 26 | Bank Clerk | Reading |
| | Grace Blanche Miller | 28 | Nurse | Reading |
| 11 | James Edward McCormack | 39 | State Employee Timekeeper | Stoneham |
| | Mary Ann Halpin | 34 | Storekeeper | Reading |
| 28 | Frank J. Bacigalupo | 29 | Manager | Reading |
| | Mary L. Boyce | 30 | At home | Reading |
| Feb. | | | | |
| 1 | Edgar Joseph Hazlett | 20 | Chauffeur | Reading |
| | Roseann Sweet | 16 | Maid | Stoneham |
| 24 | Melvin Francis Smith | 21 | Laundry Salesman | Wakefield |
| | Mary Ryland | 20 | Mill worker | Reading |
| Mar. | | | | |
| 2 | George E. Doyle | 48 | Merchant | Merrimack, N. H. |
| | Elsie Amelia Caldwell | 32 | Nurse | Reading |
| 5 | George F. Malcolm | 57 | Manufacturer | Harrison, Maine |
| | Jennie M. (Phinney) Clark | 51 | Housewife | Reading |
| 7 | Francis Saunders Clark | 28 | Mechanic | Belmont |
| | Catherine Eva Parks | 32 | Draughting | Reading |
| 23 | Alexis Turcott | 42 | Electrician | North Reading |
| | Helen Agnes Mary Lyons | 32 | Housekeeper | North Reading |
| 28 | Fred E. Chesley | 66 | Agent, B. & M. R. R. | Reading |
| | Florence A. (Marine) Watson | 63 | Housekeeper | Reading |
| Apr. | | | | |
| 4 | John Anthony Dirkman | 32 | Photo Engraver | Reading |
| | Lena Rose Doucette | 30 | Hair Dresser | Reading |
| 4 | Fred Kimball Fowler | 31 | Tariff Compiler | Reading |
| | Lena Mildred Schlott | 27 | At home | Lawrence |
| 5 | Leon Arthur Ayer | 22 | Guide | Rockwood, Maine |
| | Esther Louise Whitehouse | 23 | School teacher | Reading |

MARRIAGES REGISTERED IN TOWN OF READING, YEAR 1931

| Date | Names | Age | Occupation | Residence |
|-------|-----------------------------|-----|--------------------|-------------------------------|
| April | | | | |
| 13 | John James Higgins | 25 | Meat Manager | Reading |
| | Jean Rose Kemp | 27 | Stenographer | Blairmore, Alberta, Canada |
| 25 | George Warren Sprague | 28 | Inspector | Reading |
| | Ardell M. Messenger | 23 | At home | Reading |
| May | | | | |
| 4 | Herbert Ethian Gilson | 20 | Mechanic | Wilmington |
| | Mary Claire Brennan | 20 | Gen. office worker | Reading |
| 11 | Horace Everett Crowell | 21 | Truck driver | Wakefield |
| | Mabel Juanita Whalen | 24 | Shoe worker | Reading |
| 11 | Fred D. Johnson | 40 | Salesman | Reading |
| | Ruby A. Bulger | 30 | At home | Nashua, N. H. |
| 16 | Richard Kneeland Palmer | 25 | Insurance | Keene, N. H. |
| | Phyllis Nodding | 24 | At home | Reading |
| 23 | William Ernest Connell | 40 | Confectioner | Reading |
| | Jean (Pendrigh) Bonneau | 44 | Housework | Reading |
| 29 | Abbott L. Deroo | 24 | Electrician | Winthrop |
| | Kathryn Hoey | 23 | Saleslady | Reading |
| June | | | | |
| 1 | Michael F. Keating | 61 | Laborer | Melrose |
| | Bridget (Joyce) Quinn | 59 | Housework | Reading |
| 6 | Ernest Arthur Peterson | 32 | Shipping Clerk | Stoneham |
| | Louise Montagu Perkins | 29 | Clerk | Stoneham |
| 7 | David Isaac Calish | 30 | Salesman | Roxbury |
| | Rose Ravich | 27 | Saleslady | Reading |
| 7 | Melvin Heaton Johnson | 23 | Retail Store Mgr. | Reading |
| | Esther Marion Southwick | 23 | Commercial Artist | Reading |
| 11 | Adelbert H. Carter | 72 | Music Printer | Reading |
| | Annie G. Stover | 60 | Music Printer | Somerville |
| 13 | Albion Edmund Metcalf | 28 | Musician | Reading |
| | Natalie Viola Ives | 19 | At home | Reading |
| 14 | Joseph Michael Savoia | 24 | Printer | Reading |
| | Margaret Mary Donovan | 19 | Tel. Operator | Woburn |
| 16 | William H. Guscott | 75 | Gardener | Reading |
| | Fanny V. Cassidy | 72 | Housekeeper | Brookline |
| 16 | John A. Meuse | 34 | Mason | Reading |
| | Josephine Amelie Fitzgerald | 25 | Housework | Wakefield |

MARRIAGES REGISTERED IN TOWN OF READING, YEAR 1931

| Date | Names | Age | Occupation | Residence |
|------|-----------------------------|-----|------------------|---------------|
| June | | | | |
| 19 | Vincent M. Notarangeli | 21 | Barber | Malden |
| | Grace Elizabeth Ellis | 18 | Waitress | Reading |
| 17 | Henry David Gaffney | 29 | Attorney-at-Law | Winthrop |
| | Frances Louise Dulong | 24 | At home | Reading |
| 23 | Benjamin Riseman | 24 | Physician | Reading |
| | Lillian Sibulkin | 22 | Bookkeeper | Dorchester |
| July | | | | |
| 4 | Joseph Joaquin Farpelha | 32 | Auto glazier | Reading |
| | Leovegilda Perry | 25 | Stitcher | Somerville |
| 5 | Clarence S. Smith | 53 | Chauffeur | Reading |
| | Jessie M. (Salsman) Young | 61 | At home | Bangor, Me. |
| 12 | William Covert Wright | 43 | Electrician | Reading |
| | Ora Exelia Goulette | 24 | Housekeeper | Reading |
| 15 | Lewis A. Bigelow | 70 | Merchant | Reading |
| | Frances M. (Cady) Doughty | 44 | Teacher | Reading |
| 18 | Robert Francis Hayes | 22 | Shipper | Stoneham |
| | Dorothy Gertrude Borthwick | 19 | Laundry worker | Reading |
| 24 | William Alan Henderson | 27 | Salesman | Reading |
| | Ruth Emelie Taylor | 21 | Clerk | Reading |
| 24 | Alfred Byron Pearson | 52 | None | Reading |
| | Elizabeth Dawn | | | |
| | Agnes Johnson | 27 | At home | North Reading |
| 30 | Stevens Lambert | 19 | Salesman | Marshfield |
| | Caroline Johnson | 22 | Shoe worker | Brockton |
| Aug. | | | | |
| 1 | Walter William Borthwick | 26 | Chauffeur | Reading |
| | Louise Meuse | 19 | At home | Wakefield |
| 1 | Clarence Ray Brown | 45 | Contractor | Reading |
| | Nellie Louise (Krook) Zappy | 52 | At home | Reading |
| 1 | Herbert Temple Noel | 25 | Chauffeur | Lawrence |
| | Alice Leda Caldwell | 30 | At home | Reading |
| 15 | Ernest Eveleth Clapp | 54 | Elec. Contractor | Reading |
| | Maud Evelyn Clark | 39 | Bookkeeper | Reading |
| 15 | Thomas Stuart McGill | 27 | Builder | Dover |
| | Helen May Thompson | 27 | Teacher | Reading |

MARRIAGES REGISTERED IN TOWN OF READING, YEAR 1931

| Date | Names | Age | Occupation | Residence |
|-------|----------------------------------|-----|-----------------|---------------|
| Aug. | | | | |
| 16 | Louis Bacigalupo | 30 | Clerk | Reading |
| | Alice Helen Curley | 30 | Asst. Dietitian | Lowell |
| 30 | William Arthur Doucette | 47 | Calendar man | Reading |
| | Fannie (LeFave) Burbine | 62 | Housework | Reading |
| 30 | Malcolm William Blue | 25 | Plumber | Reading |
| | Viola Maud Hardacker | 24 | Secretary | Wakefield |
| Sept. | | | | |
| 1 | Charles Elwin McSheehy | 27 | Mason | Reading |
| | Margaret Genevieve White | 21 | At home | Reading |
| 5 | Edward Mulgrave Laskey | 36 | Engineer | Reading |
| | Emelie Marie MacDonald | 29 | At home | Somerville |
| 7 | John H. Frotten | 42 | Superintendent | Reading |
| | Margaret I. Hatch | 18 | At home | Reading |
| 8 | Walter Anthony Scanlon | 31 | Computer | Reading |
| | Rachel Bernardine Williams | 26 | Nurse | Medford |
| 11 | Arthur Montelle Hathaway | 26 | Accountant | Reading |
| | Anne Mae Crowell | 24 | Secretary | Reading |
| 12 | Wilfred Dunn | 18 | Mechanic | Reading |
| | Alice Moody | 19 | Bookkeeper | Stoneham |
| 19 | Joseph Francis Grenier | 25 | R. R. Employee | Salem |
| | Florence Mabel White | 22 | At home | Reading |
| 20 | George Burkehead Keyes | 22 | Manager | Middleboro |
| | Olympia Anna Wojciechowski | 21 | Cashier | Reading |
| 21 | Franklin Leroy Simpson | 25 | Pressman | Winthrop |
| | Hazel Marguerite (Cloudman) Rich | 21 | Secretary | Reading |
| 26 | Carl Ragnar Carlson | 26 | Draughtsman | Brookline |
| | Ethel Elizabeth Anderson | 22 | At home | Reading |
| 26 | Frederick William Van Duyne, Jr. | 28 | Bond Business | Newark, N. J. |
| | Florence Lavinia Goddard | 25 | Teacher | Reading |
| 27 | Edward Calvin McIntire | 26 | Laborer | Reading |
| | Gertrude Elizabeth Doucette | 17 | At home | Reading |
| Oct. | | | | |
| 3 | John Francis Rich | 43 | Auditor | Dorchester |
| | Helen Frances Partelow | 33 | At home | Reading |

MARRIAGES REGISTERED IN TOWN OF READING, YEAR 1931

| Date | Names | Age | Occupation | Residence |
|------|---------------------------|-----|------------------|-------------|
| Oct. | | | | |
| 10 | Norman Mitchell Dufton | 24 | Carpenter | Andover |
| | Virginia Trull Parsons | 24 | Stenographer | Reading |
| 10 | Findley Thomas MacIntyre | 31 | Insurance Broker | Malden |
| | Ellen Lucile Robinson | 31 | Teacher | Reading |
| 10 | Hugh Alexander Ross | 34 | Dyer | Lowell |
| | Charlotte Irene Harvey | 20 | Stenographer | Reading |
| 11 | Hyman Geller | 22 | Merchant | Chelsea |
| | Marion Stone | 20 | Bookkeeper | Reading |
| 23 | Concetto Giuliano | 21 | Barber | Reading |
| | Elsa Larson | 20 | Dressmaker | Reading |
| 24 | John William Hogan | 50 | Line Foreman | Reading |
| | Katherina MacDougall | 44 | At home | Boston |
| 24 | Wayne Raymond | | | |
| | Weatherhead | 24 | Wood heel man | Reading |
| | Almira Elizabeth Townsend | 26 | Tel. Operator | Saugus |
| Nov. | | | | |
| 10 | Lawrence Muise | 19 | Laundryman | Reading |
| | Margaret Deveau | 19 | Hospital work | Everett |
| 15 | Clyde Winfred Ingersoll | 31 | Chauffeur | Reading |
| | Nora Gertrude O'Connor | 33 | Stenographer | Woburn |
| 21 | Wardell C. Thaxter | 24 | Market Gardener | Reading |
| | Beulah F. Munro | 19 | At home | Reading |
| 22 | Robert Leande D'Entremont | 29 | Shoe worker | Roxbury |
| | Beatrice Augustine | | | |
| | D'Entremont | 27 | Domestic | Reading |
| Dec. | | | | |
| 1 | Louis Stone | 29 | Shoe Salesman | Reading |
| | Ida Schneider | 27 | At home | No. Reading |
| 12 | James Herbert Tibbetts | 21 | Library Asst. | Reading |
| | Ruth Anderson | 23 | At home | Melrose |

DEATHS REGISTERED IN TOWN OF READING, FOR YEAR 1931

| Date | Name | Y | M | D | Cause of Death |
|------|------|---|---|---|----------------|
|------|------|---|---|---|----------------|

Dec.

| | | | | | |
|----------|----------------|----|---|----|-------------------|
| 27, 1930 | Frank Lamphrey | 85 | 8 | 26 | Arterio Sclerosis |
|----------|----------------|----|---|----|-------------------|

Jan.

| | | | | | |
|----|---------------------|----|----|----|-------------------|
| 2 | Stephen Harrow | 78 | 3 | 21 | Hemorrhage |
| 2 | Willie E. Twombly | 66 | 9 | 5 | Hemorrhage |
| 5 | Walter S. Parker | 84 | 5 | 15 | Myocarditis |
| 6 | Edward J. Whitehead | 39 | — | — | Tuberculosis |
| 8 | George F. Hatch | 53 | 0 | 12 | Heart Disease |
| 9 | John Hickey | 65 | — | — | Arterio Sclerosis |
| 10 | Chole Suprenant | 56 | — | — | Carcinoma |
| 10 | Elizabeth F. Walsh | 38 | — | — | Embolism |
| 10 | | | | | |
| 13 | Richard Dickinson | 0 | 0 | 1 | Hemorrhage |
| 16 | James Smith Barr | 55 | 5 | 3 | Carcinoma |
| 18 | Eben Francis Graves | 81 | 7 | 16 | Arthritis |
| 20 | Mary A. Sherman | 71 | 10 | 6 | Myocarditis |
| 21 | Chester S. Buck | 40 | 0 | 28 | Heart Disease |
| 23 | Louise M. Whelton | 51 | 5 | — | Heart Disease |
| 24 | Mary L. Brooks | 77 | 3 | 22 | Pneumonia |
| 26 | Clara K. Bump | 81 | 2 | 8 | Myocarditis |
| 29 | Mary M. Kaan | 71 | 2 | 1 | Myocarditis |

Feb.

| | | | | | |
|----|------------------------|----|---|----|-------------------|
| 1 | Emma L. Clark | 66 | 2 | — | Carcinoma |
| 6 | Olive Pitts Rounday | 76 | 5 | 8 | Arterio Sclerosis |
| 7 | William Howard Chipman | 1 | 6 | 27 | Laryngitis |
| 17 | Mary A. Marsh | 84 | — | — | Heart Disease |
| 18 | Elizabeth G. Abbott | 75 | 6 | 3 | Hemorrhage |
| 18 | Milton Stephen Smith | 80 | 2 | 12 | Myocarditis |
| 23 | Mabel B. Worthen | 58 | — | 11 | Arterio Sclerosis |
| 28 | Charlotte McLean | 14 | 3 | 4 | Meningitis |

Mar.

| | | | | | |
|----|---------------------|----|---|----|---------------|
| 2 | Anna M. Hutchins | 80 | — | 4 | Myocarditis |
| 3 | Mary Bussell | 65 | 0 | 15 | Heart Disease |
| 6 | Frederick D. Sperry | 79 | 9 | 27 | Carcinoma |
| 10 | Bryan E. Flaherty | 60 | — | — | Carcinoma |

DEATHS REGISTERED IN TOWN OF READING, FOR YEAR 1931

| Date | Name | Y | M | D | Cause of Death |
|------|------------------------|----|----|----|---------------------|
| Mar. | | | | | |
| 13 | Thomas D. Bond | 44 | 2 | 6 | Peritonitis |
| 13 | Alma Robbins | 35 | — | — | Carcinoma |
| 13 | Edward F. Smart | 75 | 4 | 18 | Hemorrhage |
| 16 | William Kip Cleverley | 0 | 5 | 0 | Brain Abscess |
| 19 | Katherine Agnes Hynes | 50 | 3 | 21 | Carcinoma |
| 21 | Robert Frank Dulong | 65 | 8 | 19 | Bronchitis |
| 23 | Annie C. Kingman | 72 | 1 | 13 | Carcinoma |
| 25 | Clementine V. Davis | 77 | 5 | 15 | Hemorrhage |
| 25 | Richard N. B. Wilson | 54 | — | — | Carcinoma |
| Apr. | | | | | |
| 4 | Eliza J. (McRae) Moore | 73 | 9 | 20 | Thrombosis |
| 8 | Eleanor P. Hutchings | 89 | 0 | 2 | Pneumonia |
| 15 | Mary Jane Phinney | 86 | 2 | 23 | Angina Pectoris |
| 15 | Henry S. Pike | 84 | 2 | 9 | Hemorrhage |
| 16 | Alice M. Gascoigne | 39 | 5 | 16 | Automobile Accident |
| 19 | Joseph Defarrari | 52 | — | — | Pneumonia |
| 19 | John Gandiosa | 65 | — | — | Nephritis |
| 19 | Jennie A. Whall | 75 | — | — | Pneumonia |
| 24 | William C. McKinley | 75 | 0 | 18 | Pneumonia |
| 28 | Alfred L. Dion | 51 | 10 | 12 | Bullet Wound |
| 28 | George F. Perry | 72 | 3 | 8 | Hemorrhage |
| 30 | Chester P. Blake | 78 | 7 | 16 | Hemorrhage |
| May | | | | | |
| 3 | Alma F. Campbell | 66 | — | — | Carcinoma |
| 3 | Anthony DeMarco | 46 | 0 | 21 | Tuberculosis |
| 3 | Elizabeth A. Palmer | 73 | 10 | 9 | Appendicitis |
| 6 | Hannah Good | 83 | 8 | 17 | Arthritis |
| 7 | Mary A. Zwicker | 63 | 4 | 12 | Tuberculosis |
| 14 | William Edward Munday | 61 | 5 | 15 | Pneumonia |
| 17 | Alice N. Newell | 52 | 3 | 15 | Carcinoma |
| 21 | Catherine Zanni | 52 | 3 | 7 | Diabetes |
| 25 | Harriet A. Wentworth | 69 | 9 | 6 | Tumor |
| 26 | Austin P. Childs | 83 | 7 | 2 | Embolus |
| 27 | Albion K. Pierce | 67 | 9 | 11 | Cancer |

DEATHS REGISTERED IN TOWN OF READING, FOR YEAR 1931

| Date | Name | Y | M | D | Cause of Death |
|-------|-----------------------|----|----|----|----------------------|
| May | | | | | |
| 30 | Dorothy French Coburn | 36 | 9 | 11 | Tuberculosis |
| 31 | Sara Berwick Parsons | 84 | 5 | 14 | Arterio Sclerosis |
| June | | | | | |
| 2 | Donna E. Beaman | 44 | 2 | 25 | Atrophy of Liver |
| 4 | Alan Muise | 1 | 3 | 9 | Meningitis |
| 5 | Hattie Mabel Thorburn | 70 | 5 | 25 | Myocarditis |
| 12 | Fred E. Richards | 63 | 2 | 2 | Angina Pectoris |
| 15 | Palmer J. Seaman | 67 | 2 | 8 | Carcinoma |
| 18 | Lilla L. Swain | 66 | 2 | 2 | Carcinoma |
| 22 | Phineas A. Hodgdon | 63 | 10 | 8 | Heart Disease |
| 28 | Henry E. Holden | 75 | 6 | 2 | Pneumonia |
| July | | | | | |
| 21 | Bertil Johnson | 0 | 0 | 6 | Prematurity |
| 26 | L. Renfrew McCurdy | 71 | — | — | Hemorrhage |
| 28 | Frederick M. Field | 74 | 1 | 19 | Obstructing Prostate |
| Aug. | | | | | |
| 1 | John Maling | 4 | 1 | 0 | Hemorrhage |
| 6 | William D. Score | 54 | 5 | 19 | Carcinoma |
| 9 | Henry D. Babb | 80 | 1 | 25 | Hemorrhage |
| 18 | | | | | |
| 19 | Enos Dulong | 57 | 0 | 15 | Automobile Accident |
| 23 | George H. Parker | 22 | 1 | 1 | Dilation of Stomach |
| 23 | William L. Rand | 70 | 9 | 12 | Heart Disease |
| Sept. | | | | | |
| 1 | Bridget Devaney | 79 | — | — | Myocarditis |
| 3 | Thomas Clement | 53 | 8 | — | Heart Disease |
| 3 | Henry C. Parker | 80 | 5 | 2 | Angina Pectoris |
| 6 | Fred N. Greenwood | 49 | 9 | 20 | Myelitis |
| 8 | Florence L. Badger | 51 | 7 | 4 | Nephritis |
| 13 | Ella G. Clark | 76 | 2 | 2 | Hemorrhage |
| 14 | Catherine Gill | 63 | 1 | 5 | Hemorrhage |
| 19 | George P. French | 38 | 11 | 6 | Carcoma |
| 24 | Addie M. Rich | 74 | 9 | 27 | Angina Pectoris |
| 25 | | | | | |

DEATHS REGISTERED IN TOWN OF READING, FOR YEAR 1931

| Date | Name | Y | M | D | Cause of Death |
|-------|----------------------|----|----|----|-------------------------|
| Sept. | | | | | |
| 26 | Thomas Munn | 72 | 0 | 13 | Arterio Sclerosis |
| 27 | Addison G. Scott | 75 | 4 | 5 | Accidental Fall |
| 30 | Julius I. Gleason | 77 | 10 | 2 | Myocarditis |
| Oct. | | | | | |
| 2 | Louise E. Meuse | 20 | 4 | 21 | Heart Disease |
| 5 | Walter A. Richardson | 62 | 1 | 21 | Angina Pectoris |
| 12 | Elizabeth A. Lovejoy | 78 | 2 | 3 | Myocarditis |
| 15 | Sarah E. McKay | 88 | 8 | — | Hemorrhage |
| 26 | Keziah M. White | 74 | 4 | 12 | Angina Pectoris |
| Nov. | | | | | |
| 5 | Harriet F. Bigelow | 69 | 1 | 2 | Peritonitis |
| 11 | Clara J. Cox | 69 | 11 | 4 | Cardio Vascular Disease |
| 11 | Eva D. Nickerson | 62 | 5 | 14 | Myocarditis |
| 12 | Carrie A. George | 79 | 2 | 19 | Pneumonia |
| 17 | Julia LeFave | 93 | 10 | 16 | Myocarditis |
| 17 | Charles H. Sprague | 90 | 9 | 19 | Bronchitis |
| 23 | Blanche E. Frost | 79 | 9 | 23 | Nephritis |
| 23 | Guy L. Sides | 51 | 9 | — | Hemorrhage |
| 26 | Thomas Perkins | 59 | 1 | 7 | Nephritis |
| 26 | Frederika Schultz | 67 | — | — | Angina Pectoris |
| 27 | Abbie H. Batchelder | 94 | 2 | 14 | Arterio Sclerosis |
| 27 | Cora Weigmann | 48 | 4 | 28 | Hemorrhage |
| Dec. | | | | | |
| 5 | George S. Squires | 61 | — | — | Hemorrhage |
| 6 | Dennis W. Brown | 57 | — | — | Hemorrhage |
| 8 | John G. Archibald | 42 | 8 | 19 | Endocarditis |
| 10 | William Rehm | 40 | — | — | Alcoholism |
| 16 | Mary A. Fyfe | 77 | 1 | 16 | Arthritis |
| 19 | Ernest A. Clapp | 85 | 5 | 4 | Myocarditis |

REPORT OF SELECTMEN

To the Citizens of the Town of Reading:

The Annual Report of the Board of Selectmen for the year ending December 31st, 1931, is herewith submitted:

At the first meeting held on March 6th the Board organized as follows:

W. Homer Morrison, Chairman
Mollie A. Sweetser, Secretary
Albert N. Leman
Leon G. Bent, Clerk.

Appointments

Chief of Fire Department—Orville O. Ordway.

Superintendent of Fire Alarm—Hugh L. Eames.

Inspector of Buildings—A. Russell Barnes.

Burial Agent—Alfred E. Goodwin.

Custodian of Soldiers' Graves—Harry A. Turner.

Director of Agriculture—Rolland L. Perry.

Sealer of Weights and Measures—Carl M. Smith.

Board of Appeal—Henry Q. Millett, Chairman, Fred L. Nutter, Charles A. Damon.

Fence Viewers—Carl B. Sawyer, Albert E. Temple, Wendell B. Newell.

Weighers of Coal and Hay—W. Irving Bancroft, Bertha D. MacLellan, Wendell B. Newell, Charles W. Lee, Thomas E. Brogan, Mabel L. McKay, Percy N. Sweetser, Ruth Climo, William D. Ward, Charles N. Sweetser, Katherine L. Sweetser.

Field Drivers—Willard A. Bancroft, Adolph S. Larson, Rolland L. Perry.

Inspector of Wires—Hugh L. Eames.

Gas Inspector—David Taggart.

Reading Safety Council—Gladys S. N. Fairchild, Edward G. Quinlan, Jeremiah Cullinane, Alvah W. Clark, Adelbert L. Safford, Florence H. Libby, Alexander Birnie, Ernest A. L. Hill.

Finance Committee—Re-appointments: Edward W. Briggs, William A. Connelly, D. M. D., John L. Devaney, Margaret R. Ellison, Harry G. Porch. Appointed to fill vacancies: Margaret S. Canty, Miles C. Higgins.

Inspector of Animals—Calvert H. Playdon.

Special Police—John F. Maguire, J. Fred Richardson, Sylvanus L. Thompson, Edward McBrien, Walter Smith, James L. Healy, Henry W. Bryden, William H. Killam, Frank F. Strout, Kenneth L. Crocker,

George O. Flanders, Ralph F. Plouff, William P. Pierpont, William H. Manning, Charles H. Melendy, Gardner A. Perry, Norman L. Dickinson, Thomas F. Classen, Herbert E. Mosher, John R. Condon, Joseph M. Greene, Frank G. Nichols, Thaddeus P. Shaw.

Town Forest Committee—Leland W. Kingman, Henry M. Donegan, Orville O. Ordway.

Commissioner of Trust Funds for six years—H. Raymond Johnson.

Board of Registrars—Walter S. Prentiss.

Regular meetings have been held each week and twenty-five (25) special meetings.

Transportation

During the year the Eastern Massachusetts Street Railway Co. served notice through the proper legal channels of the abandonment of their bus service between Reading and Woburn and between Mill St. and Reading Depot. Subsequently licenses were granted by the Board to Holland Bros. of Woburn to operate between Reading and Woburn and to James Mason to take care of the Mill St. service. Permission to operate these services was granted after public hearings by the Department of Public Utilities of the State of Massachusetts. Regulations safeguarding the interests of the Town had been previously adopted by your Board.

Traffic

A careful survey of traffic conditions has been made. Traffic warning signs have been located at a number of dangerous street intersections. Flashing over-head warning lights have been placed at the junctions of Summer Ave. and Mineral Sts., Summer Ave. and Woburn St. Signs prohibiting the use of trucks on Summer Ave. have been posted. Brush obstructing the view at dangerous corners has been cut away. The Reading Safety Council has co-operated with your Board in bringing to the attention of school children and others, information and advice on public safety.

Appointments

At a joint meeting with the Planning Board held on February 6th, Mr. Louis M. Lyons was elected to fill the vacancy caused by the resignation of Mr. Leland W. Kingman.

Miss Margaret S. Canty and Miles C. Higgins were appointed to fill vacancies on the Finance Committee caused by the resignations of Helen R. Grimes and Forest H. Bryant.

A joint meeting was held with the School Committee to fill the vacancy caused by the removal from town of Dr. Harold A. Carnes of that Board. Frank D. Tanner was elected.

Thaddeus P. Shaw was appointed care-taker of the Town Farm. This appointment has resulted in a generally improved appearance of the property and Mr. Shaw is to be commended for his work.

Thomas Fitzpatrick was appointed a patrolman from a Civil Service list of three (3) splendid applicants and has proven a valuable addition to the Police Force.

Unemployment

The local employment emergency has been met as follows: Early in the Fall a meeting was held with the Chairmen of various Town Boards and with men and women representative of the business organizations and social life of the town, at which plans were discussed. Later your Board, acting as the Reading Emergency Unemployment Relief Committee, met with the Chairmen of Town Boards at which time the Boards presented a list of useful projects of public improvements which might be done by the unemployed. The Finance Committee transferred \$600 from the Reserve Fund. Applicants for jobs were registered and the work was done.

No dole was given. Work was distributed, after careful investigation, on the basis of the applicant's need. Forty (40) cents an hour was the wage, high enough to furnish bare necessities, low enough to discourage men from accepting this work in place of better jobs.

A large number of men with dependents have been given employment. In return they did much useful work in parks, streets and other town property. Supervision was by the trained personnel of the various town departments.

In addition to public funds generous private contributions for this work have been received. The unemployment emergency has also increased the number of applications for Soldiers' Relief. We take this opportunity to thank the Board of Public Works, the Board of Cemetery Trustees, the Municipal Light Department, Henry M. Donegan, Tree Warden and the Town Forest Committee for providing work for these men.

Filling Stations

Your Board feels that the question of gasoline filling stations is one in which our citizens are vitally interested. In our opinion the proper development of our business sections would be hampered by a further increase of this character of establishments. We decided, therefore, that no further permits of this nature would be granted within the central business sections of the town.

Motion Picture Theatre

S. Pfau applied for a license to operate a motion picture theatre. A public hearing was held on June 19th. Prior to this the case had been widely discussed in the local press and elsewhere. At the hearing arguments for and against the granting of the license were presented by interested citizens. After carefully weighing all the questions involved, your Board, believing that it was acting for the best interests of all of the town, refused to grant the license.

Forest Fire Pump

Pursuant to a vote of the Town at the Annual Meeting, a forest fire pump was purchased. Fortunately there were few forest fires during the year, but your Board feels that this piece of apparatus may well prove a very valuable addition to the Fire Department in dealing with this menace to the property of our citizens.

Roadside Stands

The increase in Reading's size and its position on the well-travelled boulevards naturally increases the number of roadside stands. This condition brings a new problem which affects traffic and the general appearance of approaches to our town. To control this problem in the interests of the entire town, your Board regulates the conditions under which it will grant all future Lord's Day Licenses for such stands.

Zoning By-Law

Certain of our citizens vigorously protested the removal of sand and gravel from private property off Lowell St. While it appeared that the owner was well within his rights under the zoning by-law in removing the material, in order to prepare the sand for the use for which it was intended, it was necessary to erect a temporary building. This building had already been erected. After a public hearing before the Board of Appeal, a variation of the zoning by-law was granted to permit a temporary continuance of this work.

There followed a demand for a change in the zoning by-laws to better control any future cases of this nature. Your Board referred this matter to the Planning Board for study and recommendation. The result of their deliberations is now before the Town. We are strongly of the opinion that any future changes in the zoning by-laws should be thoroughly investigated before any definite action is taken by the Town and in our opinion the Planning Board is best equipped to make such study.

Your Board has furnished a room in the basement of the Municipal Building for the use of the Planning Board. The building is now entirely occupied.

1932 is the year of the George Washington Bi-Centennial. Each town and city in the nation is taking some part. Your Board has appointed Clinton L. Bancroft Chairman of the Reading Committee.

The work at the Town Forest has been carried on by the Town Forest Committee. Your Board plans to continue this worth-while project the coming year through the medium of the unemployed.

In closing may we express our appreciation to the various Boards and Officers of the Town for their co-operation during the year.

W. HOMER MORRISON
MOLLIE A. SWEETSER
ALBERT N. LEMAN

Selectmen of Reading.

ANNUAL REPORT

OF THE

SCHOOL COMMITTEE

OF THE

TOWN OF READING, MASSACHUSETTS

For the year Ended December, 31

1931

ADMINISTRATIVE OFFICERS

School Committee

| | | |
|--------------------------------------|--------------|------|
| Arthur W. Coolidge, 136 Summer Ave. | Term Expires | 1934 |
| Mrs. Helen B. Hartshorn, 15 Vine St. | " " | 1934 |
| Mrs. Laura S. Gordon, 93 Haven St. | " " | 1933 |
| Carl M. Spencer, 119 Woburn St. | " " | 1933 |
| Logan R. Dickie, Walnut St. | " " | 1932 |
| Frank D. Tanner, 54 Howard St. | " " | 1932 |

School Committee Office

High School, Sanborn St. Telephone, Reading 0180
(Open 8.30 a. m. to 4 p. m. except on Saturdays : 9 a. m. to 12 m.)

Supervisory Staff

Adelbert L. Safford, \$3,800, Superintendent, Office Hours : School Days, 9 to 9.30 a. m.
Margaret Hunt, \$1,400, Accountant and Order Clerk, Teacher Short-hand and Typewriting, High School.
Abigail H. Mingo, \$2,200, Sec. to Supt., Attendance Officer, Dean of Girls, Manager of School Lunches.
Verna L. Wadleigh, \$1,900, Testing and Statistics, Special Research .
Charles R. Henderson, \$1,000, School Physician, Consultant in Athletics.
Mabel M. Brown, \$2,000, Director of Health in the Schools and Nurse.
Kathleen P. Hanscom, \$1,200, School Nurse and Instructor in Nursing Technique.
Mercie V. Nichols, \$1,900, Supervisor Drawing, teaches in Senior High School.
Margaret Whittier, \$1,800 Supervisor Music, lower grades, teaches in Junior High School.
Margaret Cameron, \$2,000, Supervisor Penmanship, lower grades, teaches in Junior High School.

School Clerks

School Committee : Hope R. Williamson, \$728.
Senior High : Myrtle W. Tilton, \$1,000.
Junior High : Doris Skinner, \$968.
Junior High : Esther Downs, \$660.
Highland : Beatrice Bryden, \$792.

No School Signals

Fire Alarm 2-2 repeated 3 times
Street Lights turned on for 5 minutes
7.30 a. m. for (Senior High School, Junior High School, Intermediate School [gr. 5 and 6], Opportunity School).
8.15 a. m. for Grades 1 to 4 inclusive, morning session.
12.45 p. m. for Grades 1 to 4 inclusive, afternoon session.

To keep the schools open every school day if possible is the policy of the management. This affords parents the choice either of sending pupils to school or of keeping them at home as the parent considers the conditions warrant in his particular case.

School Clinics

Diphtheria Prevention, by special appointment.

Tuberculosis Prevention, by special appointment.

Pre-School, every Tuesday at 3 p. m., at the Municipal Building.

Dental, Wednesdays and Fridays at the Grouard House.

Posture, first Monday of each month at the Grouard House.

Habit, every Tuesday at the Municipal Building.

REPORT OF THE SCHOOL COMMITTEE, 1931

To the Citizens of the Town of Reading:

The School Committee submits its annual report.

We are returning to the procedure of printing in full the reports of the superintendents, the principals and supervisors and refer to them for detailed information regarding the several phases of the school program and its activities.

The Committee has again lived within its budget and has turned back to the Treasurer at the end of the year unexpended balances as follows:

| | |
|-------------------------------|-----------|
| On salaries account | \$ 145.64 |
| On general account | 1,187.37 |
| On agricultural account | 129.82 |

General conditions during the past year have made it appear inadvisable to recommend any building program. Until times are nearer to normal the Committee believe any expansion of plant and any building program should be held in abeyance. Until such a program is determined upon, further work on the development of the lawns and planting at the Highland School should also be postponed.

During the past year the Town acquired the vacant land between the Junior High School and the railroad tracks. With the assurance thus afforded that this land cannot be built upon by outside interests, or developed to the injury of the school, its actual development for playground facilities can be undertaken as and when the Town wishes.

With the special appropriation made available last year, the whole of the Junior High School grounds have been surveyed and permanent bounds fixed and the grounds plotted by Professor Ernst Herman for play and recreational development. The space immediately adjoining the school on the East has been rough graded and partially loamed. The Committee recommend that this project be completed so that it may be put to immediate use for the school and recreational purposes.

During the year the physical education program has been co-ordinated and developed so that it now progressively covers grades 1 to 12.

Dr. Harold A. Carnes found it necessary to resign from the Committee having moved from the Town. He has been a valued member devoting his energy largely to the Committee on Grounds and Buildings. The present excellent condition of the school plant is a tribute to his work. Frank D. Tanner was chosen to fill the unexpired term of Dr. Carnes and has assumed the chairmanship of the Sub-Committee on Buildings and Grounds and on Athletics.

Carl M. Spencer resigned as Chairman of the Committee during the summer and Arthur W. Coolidge was elected to succeed him.

The terms of Logan R. Dickie and Frank D. Tanner expire this year.

Respectfully submitted

ARTHUR W. COOLIDGE

CARL M. SPENCER

LOGAN R. DICKIE

LAURA S. GORDON

HELEN B. HARTSHORN

FRANK D. TANNER

REPORT OF THE SUPERINTENDENT OF SCHOOLS, 1931

To the Honorable, the School Committee of Reading, Massachusetts:

I hereby submit my nineteenth annual report which is also the thirty-ninth annual report of the Superintendent of the Reading Public Schools. Notwithstanding the serious financial crisis and unemployment situation, during the past year, the operation of the various Reading schools has been carried on as efficiently as usual without serious interruptions or any radical changes in administration or in the educational policies pursued in recent years. In this respect Reading has been more fortunate than some other towns and cities in the state. In certain instances drastic cuts in salaries have disheartened teachers and disrupted the teaching force; lack of textbooks and supplies has hampered pupils in their studies and rendered less effective the teachers' efforts; and, in general, the up-keep of the school plant and new additions to provide for increased enrollment have been curtailed to a serious degree. Undoubtedly, the children in these places have suffered great loss in consequence.

The guiding principle of the Reading schools is the belief that education in the schools is an indispensable agency in each child's development to a maturity of thought and action that will insure self-support and contentment, a wholesome contribution to community life and a safe and sane participation in "government of the people, for the people, by the people." A distinguished philosopher has called education the key to life. He says: "The community's duty to education is its paramount moral duty. By law and punishment society can regulate and form itself in a haphazard and chance way only. Through education society can formulate its own purposes, and can shape itself with definiteness and economy. It is the business of everyone interested in education to insist upon the school as the primary and most effective means of social progress. The art of giving shape to human powers is the supreme art."

In these times of depression and necessary retrenchment any step that would render the rising generation less able to cope with its problems of living should be the last to be taken. On the list of necessities that may not be sacrificed in the exigencies of a temporary crisis, the future welfare of the children, physical, intellectual, and spiritual, stands first. Horace Mann in his famous fifth report says: "Due emphasis should always be laid upon the practical side of education. The choicest products of education, however, cannot be estimated in dollars and cents. For the highest and best things in life there is no equivalent in money; they can be attained only by living the higher life."

The town of Reading has been very conservative in expenditure for the erection of new school houses. Only three of its present buildings could be regarded in any sense as modern in structure or facilities. Of these three the Highland School was first used in September, 1896, over thirty-five years ago; the Senior High School was first used in September 1906, over twenty-five years ago; and the Junior High School was first used in September 1927. All these buildings were built without going outside the legal limit of bonded indebtedness, as is often done in other towns by special legislative sanction for school house construction.

The Highland and High School bonds have all been paid. More than half the cost of the Junior High School has already been paid and the remaining amount will be in the next five years. The taxpayers of Reading have certainly not been burdened by the erection of any expensive, ornate and unnecessary school accommodations during the past forty years.

At the town meeting in March 1893, the town voted "almost unanimously that the School Committee be empowered to hire a Superintendent of Schools in connection with the town of Wakefield." Mr. Charles E. Hussey of Natick was unanimously elected to the position and held it for the ensuing six years. In his first annual report Supt. Hussey made the following statement: "With a fixed and progressive policy in school affairs, with unusual unanimity of opinion among members of the School Committee, with good will and assistance of the citizens of the town, with an appropriation always generously granted, there seems no reason why the schools of this town should not change from good to excellent, and assume certain modern methods and additions which the experience of other towns has proved valuable acquisitions to the school curriculum. As a place of residence a first question is asked in regard to schools and if considered only from a selfish point of view modern schools with modern methods are desirable." This policy voiced by Supt. Hussey was firmly established in his time and has been maintained to a marked degree ever since. Within the past month I have heard a Reading citizen, prominent in town affairs for a long time, and holding a position of large financial responsibility say that he thought Reading schools are about the best asset that Reading has to attract new people to take up residence in the town. Some of the excellent features of the Reading Schools may be stated specifically.

For one thing, they have unusual holding power so that the number of pupils in the Junior and Senior High Schools is a much larger percentage of the total enrollment in all schools than is found to be the case in many other towns and cities. Reference to this will be found in the accompanying report of the principal of the Senior

High School. The cost of teaching a pupil in the high school is for several causes about seventy per cent more than it is in the elementary grades. Therefore, if the per pupil cost in the total enrollment of Reading should be compared with the same item in a town having a smaller percentage of pupils enrolled in the high school Reading might appear to a disadvantage, when in reality the fact might be greatly to the credit of the Reading schools, especially if it indicated that Reading schools served the individual needs of the pupil so well that he was enabled to overcome obstacles that in another system might cause him to drop out of school before he reached the High School. For over ten years Reading has maintained a service for ascertaining the needs of each individual pupil and for making adjustments in his placement in classes, in the contents of his curriculum, and in the time allowed him for completing a grade or subject. Standard general tests of mental age and achievement and standard tests in each subject are used as required and a careful cumulative record of results is made, constituting a complete system of child accounting and guidance. More than the entire cost of this service is saved on gifted pupils that are enabled to cover the course in less time than the allotted time or on the slower pupils that are, by suitable adjustments, mentioned above, saved from repeating a whole grade or a whole subject. Although by this system pupils of lesser ability are given a chance for an education suited to their needs instead of being thrust out by non-promotion, the benefit to pupils of highest abilities is equally important because they are not slowed up and hampered by other pupils unable to do as difficult work or to progress as rapidly.

Many graduates of Reading High School have made notable records for scholarship in various colleges: many of them have been "on the Dean's List of Superior Students" and in general, graduates of Reading High School have made as good records in college as they did in high school. In general, college preparatory pupils are fitted to pass the College Entrance Board examinations but they are able at present to enter by certificates from Reading High School any college receiving pupils on that basis. About twenty years ago the privilege of certification granted by the New England College Entrance Certificate Board was suspended for a year, due to the principal's yielding to the pressure from parents to certificate for college, pupils whose high school record was too low to justify certification. The certificate privilege was regained the next year. Again in 1924 under another principal not in Reading at present the same thing happened. But the certificate privilege was regained by the present principal the next year and has been retained since. The standing of graduates of the Commercial course is shown by num-

erous representatives in the banks, office of the Municipal Light Board, and other business offices in Reading, and by a many times larger number in business offices in Boston and elsewhere. Until the recent business depression no graduate of Reading High School Commercial Course, who passed with a satisfactory record, need be without a job. We could have placed many more. A survey made by the state showed that graduates of our Agricultural course have been successful in a high degree, some in Reading, but many more elsewhere. Other departments of the school show equally satisfactory results in other lines.

The Reading Junior High School, organized in 1915 as a two-year school, was expanded in 1927 to a three-year school upon occupying the new building by taking over the work of the first year of the four-year High School, which was thereby reduced to a three-year Senior High School. A little removed from the direct pressure of preparation for college examinations the Junior High School has been able to introduce many features of a progressive program and is today an outstanding school in New England in its organization, curriculum, teaching personnel, methods of teaching, and extra-curricula activities. The principal of the Junior High School elsewhere in this report describes some of the studies in principles of teaching worked out by his corps during the past two years. It is undoubtedly the finest piece of work ever done in Reading schools, although similar excellent work is being done in the lower grades under Miss Wadleigh's direction as described in this report by her.

The Highland School for all the pupils of grades five and six in Reading embodies in its organization and administration the salient features of the Platoon School which has spread from Gary, Indiana, where it was first organized to all parts of the United States. It has been developed particularly to a high degree of efficiency in Detroit. Asst. Supt. Spain's Manual of the Platoon School is a textbook and guide to standard procedure. Roscoe D. Case of Stanford University says: "In the platoon school is to be found the practice of a philosophy which is in agreement with the most up-to-date and thoroughly tested educational theory, and at the same time is within the range of the financial ability of every school district."

The principal and teachers of this school joined with the Junior High School faculty in the University half-year course being given by Prof. Wilson of Harvard. In this connection each teacher outlined her subject in units of learning defined in terms of what pupils will know or do when the unit is mastered. The making of assignment outlines or work-books, the preparing of standard or objective tests,

and activities applying the knowledge gained have been given attention. The principal, Miss Wakefield, gives an excellent account of the present status of the work in this school in her report.

The primary schools of Reading, comprising grades one to four, have accomplished a large amount of re-organization and development of new methods in the past two years. Miss Wadleigh's report gives many details of what has been done and the results in standardizing procedures in primary grades. An activity program based on good citizenship has been the unifying principle in which the three R's and other subjects are integrated.

There are many other progressive features of Reading schools that might be worthy of mention in some detail if space permitted. The health work carried on by the school physician, nurses, teachers, and the staff maintaining the different health clinics is outstanding in its broad scope and high quality. The several "opportunity" schools for pupils who are slow or handicapped in learning are giving a chance to pupils who otherwise would make little progress. All these commendable features of the Reading schools have been built up step by step through a period of years and should be as carefully maintained as other valuable assets of the town.

For other details of the work of the schools I ask your attention to the reports of the supervisors and supervising principals. From a professional standpoint, the year has been in some respects the best of any of my nineteen years in Reading. I feel that all along the line the teachers have made notable advancement in improving the quality of the education they are giving the children. I deeply appreciate the time, money, efforts and devotions to an ideal which they have put into this year's accomplishments.

Respectfully submitted,

ADELBERT L. SAFFORD

TEACHERS IN SERVICE, DECEMBER 31, 1931, WHERE EDUCATED, YEAR APPOINTED
ALSO ENROLLMENT FOR THE FOUR MONTHS ENDING DECEMBER 31, 1931

| SCHOOL | GRADES OR SUBJECTS TAUGHT | NAME OF TEACHERS | GRADUATE OF | Year Appointed | Salary | Total Enrollment | Average Membership | Average Attendance | Percent of Attendance |
|-----------------------------------|--------------------------------------|------------------------------|---|-------------------|--------|---------------------|-----------------------|-----------------------|--------------------------|
| Senior High.... | Principal..... | Rudolf Sussmann..... | *Conn. Ag., B.S. Ag.; B. Univ., B.S. in Educ. | 1917 | \$3600 | 505 | 459.00 | 488.00 | 94.05 |
| | English..... | Josephine M. Barlow..... | *Mt. Holyoke, A.B..... | 1928 | 1900 | | | | |
| W. S. Parker, Junior High..... | Con. Eng. Occupations..... | Elizabeth A. Batchelder..... | *Salem Normal, Boston Univ., B.S. Ed..... | 1916 | 1900 | | | | |
| | Manual Training..... | Alfred Boehm..... | *Trade School, Hamburg, Germany..... | 1920 | 2500 | | | | |
| | Latin..... | Lois R. Bradley..... | *Mt. Holyoke, B.A..... | 1931 | 1700 | | | | |
| | English..... | Clarissa I. Brown..... | *Gorham Normal, Boston Univ., B.S. Ed..... | 1924 | 1900 | | | | |
| | Shorthand, Typs., Bookkeeping..... | Elva A. Buckley..... | *Bay Path Inst., Boston Univ., B.B.A..... | 1924 | 1900 | | | | |
| | History..... | A. Imrie Dixon..... | *Ohio Wesleyan, A.B..... | 1930 | 2400 | | | | |
| | Bookkeeping, Penmanship..... | Alberca F. Drury..... | *Posse Normal, Salem Normal..... | 1917 | 1900 | | | | |
| | English..... | Helen M. England..... | *Radcliffe, A.B., A.M..... | 1929 | 1500 | | | | |
| | German, English and Algebra..... | Helen M. Ernst..... | *Boston College, A.B..... | 1931 | 1600 | | | | |
| | Coach, Aec. & World Hist., Geom..... | Joseph F. Fitzgerald..... | *Bay Path Institute and Williamette Nor..... | 1930 | 2100 | | | | |
| | Shorthand and Typewriting..... | E. Frances Greenhalgh..... | *Bowdoin, A.B..... | 1914 | 1900 | | | | |
| | Mathematics..... | Lake Helen..... | *Boston Univ., B.S. Ed..... | 1922 | 2600 | | | | |
| | U. S. Hist., Phys. Ed., Coach..... | Humphrey B. Howe..... | *Univ. of Missouri, A.B..... | 1930 | 2100 | | | | |
| | Biology, Voc. Mathematics..... | Lillian H. Jenkins..... | *Boston Univ., A.M..... | 1931 | 1900 | | | | |
| | Com. Geog., World Hist., Eng..... | Ida C. Lucas..... | *Sargent University, A.B..... | 1916 | 1900 | | | | |
| | Phys. Ed..... | Florence G. Nichols..... | *Boston University, A.B..... | 1929 | 1900 | | | | |
| | Music..... | Samuel A. W. Peck..... | *Cady, B.S., Harvard, Ed. M..... | 1931 | 700 | | | | |
| | Chemistry, Physics..... | Frederick J. Pope..... | *Wellesley, A.B., Harvard, Ed. M..... | 1922 | 2500 | | | | |
| | French..... | Marian T. Pratt..... | *Boston Univ., A.B. and M.A..... | 1919 | 1900 | | | | |
| | French..... | Carmen Simon..... | *Mass. Agric. College, B.Sc..... | 1928 | 1900 | | | | |
| | Agriculture..... | Raymond W. Blasdel..... | *Bates College, A.B.; Harvard, Ed. M..... | 1924 | 2500 | | | | |
| | Principal..... | Emma S. Page..... | *N. H. State Normal..... | 1923 | 3600 | | | | |
| | Asst. Prin., Mathematics..... | Philip W. Althoff..... | *Springfield College, B.P.E..... | 1899 | 1900 | | | | |
| | Hygiene, Phys. Ed., Coaching..... | George D. Anderson..... | *Boston Univ., B.S..... | 1927 | 2500 | | | | |
| | Mathematics..... | Ruth Bonney..... | *Wellesley, B.A..... | 1925 | 2500 | | | | |
| | Social Science..... | Helen B. Bean..... | *Framingham Normal, B.S. Ed..... | 1931 | 1700 | | | | |
| | Home Economics..... | George R. Draper..... | *Beverly High School..... | 1930 | 1800 | | | | |
| | Science Guidance..... | Marian D. Day..... | *Fitchburg Normal..... | 1924 | 1900 | | | | |
| | Printing, Metal Work..... | George R. Draper..... | *Fitchburg Normal..... | 1926 | 2500 | | | | |
| | Art..... | Eleanor F. Emerson..... | *Salem Normal..... | 1915 | 1700 | | | | |
| | Woodwork..... | Lyman E. Faney..... | *Mass. Normal Art..... | 1918 | 2500 | | | | |
| | Social Science..... | Lestina M. Goddard..... | *Gorham Normal..... | 1920 | 1700 | | | | |
| | Guidance, Occupations..... | Grace M. Harriman..... | *Radcliffe, A.B.; Harvard, Ed. M..... | 1928 | 1900 | | | | |

| SCHOOL | GRADES OR SUBJECTS TAUGHT | NAME OF TEACHERS | GRADUATE OF | Year Appointed | Salary | Total Enrollment | Average Membership | Average Attendance | Percent of Attendance |
|----------|---------------------------------|-----------------------------|---|-------------------|--------|---------------------|-----------------------|-----------------------|--------------------------|
| Highland | English..... | Grace Heffron..... | *Tufts, A.B..... | 1930 | 1600 | 31 | 30.43 | 29.04 | 95.41 |
| | General Science..... | Glady Henderson..... | *Salem Normal..... | 1928 | 1400 | 24 | 23.85 | 23.04 | 97.06 |
| | Latin and French..... | Genevieve P. Hook..... | *Univ. of Vermont, A.B.; Radcliffe, M.A..... | 1931 | 1600 | 34 | 33.02 | 31.59 | 95.67 |
| | Social Science..... | Louise B. Jenkins..... | *Bridgewater Normal..... | 1920 | 1700 | 28 | 26.56 | 24.62 | 92.70 |
| | Mathematics..... | Inez H. Lewis..... | *Gorham Normal..... | 1923 | 1700 | 28 | 26.06 | 24.68 | 94.70 |
| | English..... | Helen G. McGill..... | *Wheaton College, A.B..... | 1928 | 1800 | 30 | 29.24 | 27.68 | 94.70 |
| | English..... | Claudia Perry..... | *Radcliffe, A.B..... | 1928 | 1500 | 30 | 30.47 | 29.09 | 95.44 |
| | English..... | Dorothy W. Randall..... | *Radcliffe, A.B..... | 1929 | 1800 | 34 | 33.38 | 31.48 | 94.20 |
| | Special Class..... | Anna M. Rake..... | *Radcliffe, A.B..... | 1928 | 1800 | 18 | 17.88 | 15.94 | 80.13 |
| | Mathematics..... | William A. Rich..... | *Salem Normal..... | 1928 | 1900 | 34 | 33.63 | 32.51 | 96.73 |
| | Physical Education..... | Margaret E. Tyacke..... | *Girls High School, Boston; Harvard Sum..... | 1926 | 1700 | | | | |
| | Business Practice and Type..... | Ethel S. Williams..... | *Salem Normal..... | 1922 | 1700 | 33 | 32.5 | 30.69 | 94.43 |
| | Social Science..... | John M. Woolbridge, Jr..... | *Har., A.B., Ed. M.; Har. Bus. Adm., M.B.A..... | 1930 | 2000 | 32 | 32 | 30.44 | 95.10 |
| | Musie..... | Thelma Rhysburger..... | *John Fletcher College, B.A..... | 1931 | 1700 | | | | |
| | Social..... | Josephine Carleton..... | *Boston Univ., B.S. Ed..... | 1931 | | | | | |
| | Prim. Hld., Central, Union..... | M. Grace Wakefield..... | *Salem Normal..... | 1890 | 2400 | | | | |
| | Grade 5..... | Dorothy Allard..... | *Salem Normal..... | 1928 | 1500 | 40 | 38.51 | 36.92 | 98.47 |
| | Grade 6..... | Doris E. Bauer..... | *Salem Normal..... | 1929 | 1200 | 40 | 38.86 | 37.22 | 96.29 |
| | Grade 5..... | Lillian Braun..... | *Farmington, Me., Normal..... | 1930 | 1500 | 30 | 25.36 | 27.03 | 92.08 |
| | Physical Education..... | Mariorie H. Buckle..... | *Posse-Nissen..... | 1927 | 1400 | | | | |
| | Grade 1..... | Bertha Carfrey..... | *New Jersey State Normal Certificate..... | 1931 | 1500 | 26 | 25.24 | 22.28 | 88.28 |
| | Grade 2..... | A. Louis Fogg..... | *New Jersey State Normal Certificate..... | 1919 | 1500 | 23 | 20.54 | 29.12 | 95.07 |
| | Grade 6..... | Matilda J. Gamble..... | *New Boston, N. H., High; Colby (2 yrs.)..... | 1920 | 1500 | 41 | 33.82 | 37.84 | 97.44 |
| | Grade 5..... | Carolyn C. Grace..... | *Woburn High..... | 1919 | 1500 | 40 | 38.95 | 37.25 | 95.53 |
| | Grade 6..... | Halden L. Harling..... | *North Adams Normal..... | 1919 | 1500 | 40 | 40 | 38.29 | 95.72 |
| | Grade 3..... | Halden L. Harling..... | *Salem..... | 1927 | 1400 | 16 | 14.52 | 13.61 | 93.61 |
| | Grade 4..... | Florence A. Potter..... | *Salem..... | 1925 | 1500 | 18 | 17.98 | 17.03 | 94.59 |
| | Grade 5..... | Annie W. Quillen..... | *Plymouth, N. H., Normal..... | 1925 | 1500 | 39 | 38.36 | 37.23 | 97.03 |
| | Domestic Science, Primary..... | Pauline V. Rice..... | *Framingham Normal, B.S. in Ed..... | 1916 | 1500 | 43 | 41.57 | 39.50 | 94.57 |
| | Opportunity..... | Marion F. Richner..... | *Framingham Normal, B.S. in Ed..... | 1931 | 1600 | | | | |
| | Opportunity..... | Helen D. Stockwell..... | *Gorham Normal..... | 1929 | 1500 | 13 | 9.61 | 90.74 | 94.64 |
| | Grade 6..... | Florence Thackeberry..... | *Salem Normal..... | 1930 | 1400 | 15 | 14.03 | 12.94 | 92.85 |
| | Grade 6..... | Eva C. Wilcox..... | *Plymouth, N. H., Normal..... | 1931 | 1500 | 31 | 27.16 | 25.8 | 94.98 |
| | Grade 5..... | | *Nova Scotia Province Normal..... | 1927 | 1500 | 44 | 43.17 | 40.99 | 94.9 |

TEACHERS IN SERVICE, DECEMBER 31, 1931, WHERE EDUCATED, YEAR APPOINTED ALSO ENROLLMENT FOR THE FOUR MONTHS ENDING DECEMBER 31, 1931

| | | | | | | | | | |
|------------------|----------------------------|---------------------------|---|------|------|------|---------|---------|--------|
| Center..... | Grade 2..... | Grace H. Crosby..... | *Salem Normal..... | 1930 | 1100 | 27 | 25.6 | 24.12 | 94.25 |
| | Grade 2..... | Alberta Matheson..... | *Salem Normal..... | 1924 | 1500 | 38 | 36.19 | 34.84 | 96.03 |
| | Grade 4..... | Frances L. Musgrave..... | *Bridgewater Normal..... | 1929 | 1200 | 41 | 37.73 | 36.19 | 95.93 |
| | Grade 4..... | Norma E. Perkins..... | *Salem Normal..... | 1928 | 1300 | 44 | 41.61 | 38.73 | 93.04 |
| | Grade 3..... | Edna M. Thompson..... | *Salem Normal..... | 1930 | 1100 | 45 | 43.05 | 40.635 | 94.067 |
| | Grade 3..... | Isabel L. Winchester..... | *Salem Normal..... | 1928 | 1300 | 44 | 43.11 | 40.57 | 94.19 |
| Union..... | Grade 1..... | Alice D. Berry..... | *Bridgewater Normal..... | 1927 | 1500 | 38 | 37.04 | 35.22 | 93.11 |
| | Grade 1..... | Winifred Cochrane..... | *Plymouth, N. H., Normal..... | 1920 | 1500 | 37 | 33.95 | 31.88 | 93.91 |
| | Grade 1..... | Addie A. Copeland..... | *Dover, N. H., High School..... | 1925 | 1500 | 36 | 31.71 | 28.13 | 88.66 |
| | Grade 2..... | Nellie P. Dow..... | *Caribou, Me., High, Hyannis Summer..... | 1919 | 1500 | 38 | 37.44 | 35.87 | 95.97 |
| Lowell St..... | Principal and Grade 4..... | Dorothy L. Burgess..... | *Danvers High..... | 1920 | 1700 | 31 | 29.12 | 27.94 | 95.87 |
| | Grade 1..... | Doris R. Cleary..... | *Salem Normal..... | 1926 | 1500 | 43 | 39.63 | 36.33 | 91.81 |
| | Grade 2..... | Dorothy E. Cotton..... | *Lowell Normal..... | 1927 | 1400 | 43 | 41.21 | 39.42 | 95.39 |
| Prospect St..... | Principal and Grade 3..... | Ada E. Dow..... | *Carroll High School; Emerson Col. (2 yrs.) | 1908 | 1500 | 40 | 39.68 | 38.54 | 96.48 |
| | Grade 1..... | Verna E. Herrick..... | *Perry Normal..... | 1927 | 1500 | 38 | 36.79 | 34.60 | 94.34 |
| | Grade 2..... | Jessie Little..... | *Bridgewater Normal..... | 1926 | 1500 | 45 | 43.62 | 40.97 | 93.92 |
| | Grade 4..... | Irene Perry..... | *Wheelock Training..... | 1916 | 1500 | 46 | 44.31 | 39.52 | 89.19 |
| Chestnut Hill.. | Principal and Grade 1..... | Irene Richardson..... | *Arostook State Normal..... | 1923 | 1600 | 42 | 41.10 | 38.83 | 94.47 |
| | Grade 2..... | Gladys Gibbons..... | *Arostook State Normal..... | 1928 | 1600 | 17 | 15.68 | 14.77 | 82.18 |
| | Grade 3..... | Gladys Gibbons..... | *Salem Normal..... | 1930 | 1100 | 21 | 19.12 | 18.32 | 91.59 |
| | Grade 4..... | Gladys Gibbons..... | *Salem Normal..... | 1930 | 1100 | 17 | 16.73 | 14.88 | 83.91 |
| Totals..... | | | | | | 2356 | 2233 18 | 2103 86 | 90.89 |

*Have taken additional courses in education and graduate work.

BUDGET, SCHOOL DEPARTMENT, 1932

1932 Estimated
Appropriation

SALARIES

| | 1931 Expended | 1930 Expended | 1929 Expended |
|---------------------------------------|------------------|------------------|------------------|
| 1. Salaries—Supt. and Teachers' | \$167,417.69 | \$157,759.47 | \$151,553.81 |
| 2. Janitors | 16,270.00 | 15,813.00 | 15,952.50 |
| 3. Other Salaries: | | | |
| Attendance Officer | 500.00 | 500.00 | 500.00 |
| Medical Inspector | 1,000.00 | 1,000.00 | 1,000.00 |
| School Nurses | 3,166.67 | 3,187.00 | 2,420.00 |
| Total Salaries | \$188,354.36 | \$178,259.47 | \$171,426.31 |

MAINTENANCE

| | | | | |
|----------|-----------------------------------|----------|----------|----------|
| 7,500.00 | 4. Transportation of Pupils | 6,983.43 | 6,599.00 | 6,120.62 |
| 200.00 | 5. School Tuition | | 52.00 | 169.14 |
| 6,000.00 | 6. Books | 7,029.53 | 5,475.94 | 5,025.10 |
| 8,500.00 | 7. Supplies for Pupils | 9,231.74 | 7,441.00 | 6,364.39 |
| 1,500.00 | 8. Apparatus for Teaching | 564.88 | 774.64 | 2,642.51 |
| | 9. Administrative Expense | | | |
| 300.00 | Printing and Advertising | 500.68 | 62.85 | 151.75 |
| 700.00 | Office Supplies | 519.64 | 1,044.08 | 589.61 |
| 900.00 | Telephones | 890.37 | 823.19 | 744.23 |
| 300.00 | Graduation | 306.84 | 228.99 | 213.26 |
| 50.00 | Superintendent's Expense | 40.00 | 34.35 | 49.91 |
| 50.00 | Lectures, Public Meetings | | 30.00 | |
| 100.00 | Insurance | 125.42 | 54.00 | 31.57 |

BUDGET SCHOOL DEPARTMENT (Continued)

| 1932 Estimated Appropriation | | 1931 Expended | 1930 Expended | 1929 Expended |
|---------------------------------|--|------------------|------------------|------------------|
| 600.00 | Supervisor's Expense | 578.01 | 1,147.05 | 629.56 |
| 3,000.00 | Prof. J. B. Davis | | 800.00 | |
| | Total Admin. Exp. | | | |
| 6,500.00 | 10. Fuel | \$ 2,960.83 | \$ 4,224.51 | \$ 2,409.89 |
| | | 6,252.86 | 6,930.88 | 8,000.00 |
| 2,500.00 | 11. Building Maintenance | | | |
| 1,500.00 | Gas and Electricity | 2,391.61 | 2,427.79 | 2,368.71 |
| 600.00 | Water and Sewer | 1,623.80 | 1,512.95 | 1,968.95 |
| 2,200.00 | Trucking, etc. | 485.39 | 551.81 | 596.40 |
| | Janitors' Supplies | 2,269.52 | 1,988.42 | 2,279.28 |
| | 12. Maintenance and Improvement of Buildings | | | |
| | Buildings | 9,929.72 | 7,219.76 | 10,709.35 |
| | Furniture | 1,514.83 | 106.60 | 987.26 |
| | Grounds | 4,024.49 | 4,655.55 | 3,670.76 |
| 13,500.00 | Total Maint. and Im. | \$ 15,469.04 | \$ 11,981.91 | \$ 15,367.37 |
| 350.00 | 13. Blanket Insurance | | | |
| 53,850.00 | TOTAL FOR MAINTENANCE | 55,262.63 | 49,960.85 | 53,312.36 |
| | TOTAL EXPENDITURES | \$ 243,616.99 | 228,220.32 | 224,738.67 |
| | Receipts not from tax levy: | | | |
| | State Reimbursements, Chap. 70, G. L. | 16,930.00 | 16,160.00 | 15,490.00 |
| | Tuition, etc. | 8,858.72 | 17,171.51 | 14,327.48 |

| | | | |
|-----------------------------------|----------|----------|----------|
| Sundry Receipts | 95.68 | 76.09 | 91.37 |
| Due, but not paid (Tuition) | 8,460.39 | 1,344.94 | 4,207.58 |

AGRICULTURAL ACCOUNT:

| | | | | |
|----------|---|----------|----------|----------|
| 3,750.00 | 1. Teachers, Supt's, and Janitor's Salary | 2,941.59 | 2,696.64 | 2,634.86 |
| | Smith-Hughes' Fund | 185.70 | 176.68 | 161.78 |
| | George-Reed Fund | 20.17 | | |
| | 2. Light, Fuel, Repairs | | | |
| 300.00 | 3. Books, Apparatus, Supplies | 170.18 | 251.33 | 147.35 |
| | Receipts not from tax levy: | | | |
| | State Aid to Industrial School | 1,437.07 | 1,357.52 | 1,136.46 |
| | Smith-Hughes' Fund | 175.96 | 185.70 | 176.68 |
| | George-Reed Fund | 38.23 | 20.17 | |
| | Tuition | 500.40 | 1,003.85 | 749.24 |
| | Due but not paid | 441.33 | | 247.08 |

INDUSTRIAL TUITION:

| | | | | |
|----------|--------------------------------|----------|----------|--------|
| 1,200.00 | Tuition paid | 1,155.47 | 1,040.21 | 582.98 |
| | Reimbursement from State | 509.57 | 205.21 | 160.58 |

SPECIAL APPROPRIATIONS:

| | | |
|----------|-----------------------------------|----------|
| 3,500.00 | Land Purchase Account | 3,400.00 |
| | Grading Jr. High Playground | 5,000.00 |

243,616.99
861
252,016.99

**DETAIL OF EXPENDITURES OF SCHOOL DEPARTMENT FOR
YEAR ENDING DECEMBER 31, 1931**

Transportation:

| | | |
|--------------------------------|----------|------------|
| Eastern Mass. St. Ry. Co. | \$112.50 | |
| James Mason | 6,860.35 | |
| Alvin Munnis | 10.58 | \$6,983.43 |

Books:

| | |
|--|--------|
| Allyn & Bacon | 238.88 |
| American Book Co. | 249.11 |
| American Educ. Press, Inc. | 33.87 |
| Amer. Educ. Research Ass'n | 4.00 |
| Amer. Library Ass'n | .75 |
| American Medical Ass'n | 3.00 |
| American Shorthand Teacher | 1.00 |
| D. Appleton & Co. | 147.07 |
| The Arlo Publishing Co. | 9.87 |
| Athletic Trainers' Supply Co. | 3.00 |
| Joseph E. Avent | 2.50 |
| Edward E. Babb & Co. | 586.23 |
| F. J. Barnard Co. | 331.36 |
| A. S. Barnes & Co. | 46.66 |
| Beckley Cardy Co. | 69.97 |
| The Bedford Print Shop | 1.13 |
| C. C. Birchard & Co. | 2.67 |
| The Bobbs Merrill Co. | 1.55 |
| Bookshop for Boys and Girls | 20.21 |
| The Boston Music Co. | 18.62 |
| Boy Scouts of America | 3.00 |
| Milton Bradley Co. | 2.63 |
| The Bruce Publishing Co. | 18.04 |
| Buffalo Mun. Research Bureau | 5.00 |
| Beatrice Hunter Cahill | 7.98 |
| The Century Co. | 4.14 |
| College Entrance Book Co., Inc. | 27.75 |
| Committee of Seven | 12.37 |
| The Commonwealth Press | 2.50 |
| C. C. Crawford | 3.20 |
| The Dayloin Co. | 2.00 |
| Oliver Ditson Co. | 5.49 |
| Div. of Publications, Commonwealth Fund. | 9.75 |
| Dodd, Mead & Co., Inc. | 3.24 |
| Doubleday Doran & Co. | 28.16 |
| Ginn & Co. | 975.06 |

| | |
|--|--------|
| Golden Syndicate Publishing Co. | 6.75 |
| The Gregg Publishing Co. | 52.54 |
| C. S. Hammond & Co. | 5.00 |
| Harcourt Brace & Co. | 276.16 |
| D. C. Heath & Co. | 402.82 |
| Houghton Mifflin Co. | 695.11 |
| Institute for Research | 39.50 |
| Iroquois Publishing Co. | 26.40 |
| Italian Digest & News Service, Inc. | 1.00 |
| Journal of Chemical Education | 2.00 |
| Laidlaw Brothers | 81.00 |
| J. B. Lippincott Co. | 323.93 |
| Little Brown & Co. | 93.13 |
| Longmans Green & Co. | 2.94 |
| Lyons & Carnahan | 116.53 |
| The Macmillan Co. | 261.24 |
| Mansfield Printing Co. | 6.29 |
| Marshall Jones Co., Inc. | .93 |
| McGraw-Hill Book Co., Inc. | 60.54 |
| Mentzer Bush & Co. | 5.81 |
| Nat'l Committee for Mental Hygiene | 3.00 |
| Thomas Nelson & Sons | 1.30 |
| The New Era | 2.75 |
| Noble & Noble | 37.26 |
| The Old Corner Book Store, Inc. | 24.87 |
| F. A. Owen Publishing Co. | 10.74 |
| Oxford Book Co. | 7.01 |
| L. C. Page & Co. | 7.38 |
| Peabody High School | 6.00 |
| Professional & Technical Press | 6.80 |
| Public School Publishing Co. | 132.20 |
| G. P. Putnam's Sons | 3.23 |
| Rand McNally & Co. | 26.65 |
| Thomas S. Rockwell Co. | 32.21 |
| Row, Peterson & Co. | 9.71 |
| Harold Rugg | 46.50 |
| Benj. H. Sanborn Co. | 7.75 |
| School Arts Magazine | 4.75 |
| Scott, Foresman & Co. | 18.07 |
| Charles Scribner's Sons | 76.25 |
| Secondary Education Board | 4.36 |
| Silver, Burdett & Co. | 155.09 |
| Stanford University Press | 10.20 |
| Teachers College | 4.00 |
| United States Post Office | 9.00 |

| | | |
|---------------------------------------|--------|-------------|
| United Typothetae of America | 2.60 | |
| The University of Chicago Press | 35.81 | |
| University of Michigan | 3.00 | |
| The University Publishing Co. | 41.92 | |
| Warwick & York, Inc. | 4.38 | |
| Welles Publishing Co. | 27.00 | |
| Wheeler Publishing Co. | 6.23 | |
| John C. Winston Co. | 190.71 | |
| F. W. Woolworth Co. | 5.00 | |
| World Book Co. | 724.42 | \$ 7,029.53 |

Supplies for Pupils:

| | |
|--|----------|
| Adams Company | \$ 39.21 |
| American Book Co. | 29.99 |
| American Cookery | 3.00 |
| American Educational Press, Inc. | 12.60 |
| G. H. Atkinson Co. | 157.35 |
| Edward E. Babb & Co. | 2,300.88 |
| Back Bay Electrotpe Co. | 2.04 |
| Walter H. Baker Co. | 5.80 |
| W. Bancroft & Co. | 69.19 |
| Beacon Wiper Supply Co. | 18.70 |
| Gerrit A. Beneker | 15.00 |
| Board of Public Schools | 1.00 |
| Board of Public Works | .50 |
| The Boston Music Co. | 88.88 |
| Milton Bradley Co. | 1,112.46 |
| Joseph Breck & Sons | 15.71 |
| James W. Brine Co. | 66.52 |
| H. W. Bryden | 9.00 |
| Cambosco Scientific Co. | 117.11 |
| John Carter & Co. | 114.10 |
| M. F. Charles | 19.20 |
| Chase, Parker & Co., Inc. | 6.24 |
| The Chemical Rubber Co. | 132.46 |
| G. S. Cheney Co. | 51.95 |
| Central Scientific Co. | 172.08 |
| J. Cuneo & Company | 4.59 |
| Dennison Mfg. Co. | 4.50 |
| Oliver Ditson Co. | 3.89 |
| Denoyer-Geppert Co. | 89.93 |
| Frances M. Doughty | 5.00 |
| The Educational Test Bureau, Inc. | 10.00 |
| Frank S. Eaton | 1.80 |
| Fairbairn Art Company | 1.90 |

| | |
|---|----------|
| The Fenton Press | 5.51 |
| Alfred L. Fischer | 14.89 |
| Carl Fischer, Inc. | 41.79 |
| Fort Hill Paper Co. | 33.75 |
| Francis Brothers | 9.13 |
| Garfield Fralick Lumber Co. | 47.87 |
| General Biological Supply House | 19.58 |
| General Electric Supply Corp. | 24.38 |
| Gilchrist Company | 17.52 |
| Gardner G. Gill..... | 2.75 |
| Ginn & Company | 84.47 |
| Good Will Dairy, Inc. | .27 |
| W. T. Grant Co. | 1.00 |
| J. L. Hammett Co. | 2,028.31 |
| C. S. Hammond & Co. | 5.00 |
| Harding Typewriter Co. | 4.40 |
| Harvard Univ. Graduate School of Ed. .. | 9.00 |
| Charles W. Homeyer & Co. | 8.51 |
| Horace Partridge Co. | 10.14 |
| Howe & French, Inc. | 84.11 |
| Howe Publishing Co. | 15.00 |
| George M. Hutchinson | 2.10 |
| The Inland Printer | 3.92 |
| Iroquois Publishing Co. | 8.74 |
| W. E. Johnson | 3.20 |
| Hodson Brothers | 13.60 |
| H. P. Hood & Sons, Inc..... | 4.61 |
| Journal of Business Education | 3.00 |
| Keystone Envelope Co. | 15.22 |
| W. E. King | 26.25 |
| Laidlaw Brothers | 14.17 |
| Carl Larson | 8.96 |
| J. B. Lippincott Co. | 3.55 |
| Loyola Educational Digest | 3.00 |
| R. A. Lufkin | 3.44 |
| Magnus Brush Materials | 11.17 |
| Marshall Son & Co., Corp. | 4.65 |
| The Mathematics Teacher | 2.00 |
| H. B. McArdle | 262.59 |
| Mittag & Volger | 41.16 |
| Municipal Light Board | 121.57 |
| National Safety Council | 17.75 |
| The Palmer Co. | 13.46 |
| Palmer & Parker Co. | 88.25 |
| Parker Brothers | 4.33 |

| | | |
|--|--------|------------|
| Samuel A. W. Peck | 2.20 | |
| Proctor & Gamble Co. | 1.40 | |
| S. S. Pierce Co. | 1.20 | |
| Douglas A. Porell | 9.69 | |
| Theodore Presser Co. | 17.93 | |
| Public School Publishing Co. | 51.81 | |
| Reading Board of Public Works | .50 | |
| Reading Cash Market | 8.51 | |
| The Reading Chronicle | 63.25 | |
| Reading Citizen's Ice Co. | 1.76 | |
| Reading Custom Laundry | 1.50 | |
| Reading School Lunches | 5.50 | |
| Reading Soft Water Laundry Inc. | 9.90 | |
| Anna M. Reck | 21.85 | |
| Remington Rand Bus. Serv. Inc. | 58.00 | |
| Rockport Fish Market | .90 | |
| Rogers Isinglass and Glue Co. | 5.05 | |
| Royal Typewriter Co. Inc. | 2.70 | |
| Russell Sage Foundation | 5.00 | |
| Ryan & Buker Inc. | 10.17 | |
| The School Arts Magazine | 6.00 | |
| H. A. Shepard & Co. | 4.68 | |
| "Bob" Smith | 14.00 | |
| Fred F. Smith | 3.10 | |
| A. G. Spaulding & Bros. | 4.08 | |
| Samuel Stephens Wickersham Quoin Co... | 329.70 | |
| South-Western Publishing Co. | 26.21 | |
| Standard Electric Time Co. | 1.10 | |
| Talens School Products Inc. | 6.58 | |
| Teachers College | 4.00 | |
| Tullar-Meredith | 5.10 | |
| University Extension Commonw'th Mass. | 20.00 | |
| University Publishing Co. | 20.95 | |
| Upton Lumber Co. | 16.83 | |
| Van Alstine's | 3.30 | |
| Wadsworth Howland & Co. Inc. | 1.56 | |
| Webster Publishing Co. | 16.72 | |
| The Welles Publishing Co. | 19.00 | |
| Wild & Stevens Inc. | 7.35 | |
| A. J. Wilkinson & Co. | 95.75 | |
| "Back Number" Wilkins | 6.36 | |
| Willis Pharmacy | 1.25 | |
| F. W. Woolworth | 1.50 | |
| A. M. Wood Co. | 75.00 | |
| World Book Co. | 432.15 | \$ 9231.74 |

Apparatus for Teaching:

| | | |
|---------------------------------------|--------|-----------|
| C. C. Birchard & Co. | 6.00 | |
| James W. Brine & Co. | 179.79 | |
| The Brunswick-Balk-Collender Co. | 13.50 | |
| Cambosco Scientific Co. | 6.50 | |
| Central Scientific Co. | 19.15 | |
| Denoyer-Geppert Co. | 56.03 | |
| Dictaphone Sales Corp. | 7.50 | |
| Francis Brothers | 14.26 | |
| Gilchrist Company | 29.98 | |
| J. L. Hammett Co. | 3.75 | |
| Horace Partridge Co. | 13.80 | |
| Jewell Electrical Instrument Co. | 52.65 | |
| Keuffel & Esser Co. | 16.20 | |
| Keystone View Co. | 96.61 | |
| Quality Saw Co. | 7.54 | |
| Royal Typewriter Co. | 4.80 | |
| Ryan & Buker Inc. | 30.65 | |
| Singer Sewing Machine Co. | 6.17 | \$ 564.88 |

Administrative Expense:

| | |
|---|--------|
| American Gasoline & Oil Co. | 43.75 |
| Amberg File & Index Co. | 20.00 |
| G. H. Atkinson Co. | 5.00 |
| Edward E. Babb & Co. | 219.60 |
| F. J. Barnard & Co. Inc. | 1.50 |
| Joseph Beaudette | 14.09 |
| R. W. Blaisdell | 41.04 |
| The Bookshop for Boys & Girls | 2.00 |
| Joseph Breck & Sons | 23.25 |
| James W. Brine Co. | 20.46 |
| Bureau of Vocational Guidance | 2.50 |
| Margaret Cameron | 33.00 |
| M. F. Charles | .75 |
| Clement's | 4.55 |
| Dept. of Secondary School Principals .. | 4.00 |
| A. B. Dick Co. | 37.34 |
| Emerson & Company | 1.08 |
| General Fireproofing Corp. | 8.02 |
| Gilchrist Company | 8.00 |
| J. L. Hammett Co. | 2.46 |
| Mary E. Hilton | 73.20 |
| Hyde Publishing Co. | 10.00 |
| Eugene F. Irwin Publishers | .80 |
| Jewell & Andrews | 27.00 |

| | |
|---|--------|
| Allyn W. Kellogg | 3.13 |
| Kingman & Richardson | 2.02 |
| Alex Lindsay | 1.75 |
| Loring, Shart & Harmon | .89 |
| The Macmillan Co. | 1.48 |
| E. F. Mahady Co. | 6.87 |
| H. B. McArdle | 34.38 |
| McKenzie Engraving Co. | 131.59 |
| National Education Ass'n | 4.00 |
| The Nation's Schools | 2.00 |
| Nat'l Ass'n for the Study of The Platoon or Work-Study-Play School Organiza- tion | 1.00 |
| New Eng. Ass'n of Colleges & Secondary Schools | 2.00 |
| New England Telephone & Telegraph Co. | 890.37 |
| Florence G. Nichols | 6.00 |
| Mercie V. Nichols | 25.50 |
| Phillips Ribbon Carbon Co. | 10.85 |
| Prentiss & Parker | 123.40 |
| Progressive Educ. Ass'n | 10.00 |
| Public School Publishing Co. | 4.95 |
| The Reading Chronicle | 440.35 |
| Reading Custom Laundry | 1.58 |
| Reading Motor Co. | 9.13 |
| Remington Rand Business Service, Inc. .. | 174.27 |
| School Board Journal | 3.00 |
| School Executives Magazine | 2.00 |
| The Science Press | 5.00 |
| Scott, Foresman & Co. | 7.95 |
| S. R. Stembridge Co. | 17.79 |
| St. Louis Button Co. | 7.23 |
| Dept. of Superintendence | 30.00 |
| The Survey | 5.00 |
| Rudolf Sussmann | 28.20 |
| Teachers College | 15.60 |
| Thorp & Martin | 10.65 |
| Town of Reading, Police Dept. | 3.00 |
| Josephine Turner | 5.60 |
| United Motors Service | 13.25 |
| United States Post Office | 197.18 |
| The University of Chicago | 2.50 |
| Verna L. Wadleigh | 12.50 |
| M. Grace Wakefield | 12.50 |
| Wakefield Item Co. | 11.35 |

| | | |
|-----------------------------------|-------|-------------|
| Ward's | .50 | |
| Warwick & York, Inc. | 5.00 | |
| F. S. Wester Co. | 9.50 | |
| Margaret E. Whittier | 36.00 | |
| Yowman & Erbe Mfg. Co. | 24.53 | |
| Wright & Potter Printing Co. | 4.10 | \$ 2,960.83 |

Fuel:

| | | |
|-----------------------------|----------|-------------|
| Wendell Bancroft & Co. | 4,475.57 | |
| Oliver A. McGrane | 66.50 | |
| Percy N. Sweetser | 1,705.79 | |
| Charles Wheeler | 5.00 | \$ 6,252.86 |

Gas and Electricity:

| | | |
|---------------------------------------|----------|-------------|
| Malden & Melrose Gas Light Service .. | 466.41 | |
| Municipal Light Board | 1,925.20 | \$ 2,391.61 |

Sewer and Water:

| | | |
|------------------|--------|-------------|
| Sewer Dept. | 755.65 | |
| Water Dept. | 868.15 | \$ 1,623.80 |

Ashes and Trucking:

| | | |
|-----------------------------------|--------|-----------|
| Harold W. Batchelder | 3.00 | |
| C. Bowen | .50 | |
| Chase's Auto Express | .50 | |
| Cummings Express Company | 158.98 | |
| Dillon Parcel Delivery, Inc. | .40 | |
| Dockam Trucking Co. | .60 | |
| Huckins Co., Inc. | 1.25 | |
| Reading Express Agency | 19.16 | |
| Sargent's Express | 2.50 | |
| Harry E. Smith | 85.00 | |
| Dominick Zanni | 213.50 | \$ 485.39 |

Janitors' Supplies:

| | | |
|---------------------------------------|--------|--|
| American Gasoline & Oil Co. Inc. | 1.08 | |
| Andrews Paper Co. | 268.48 | |
| G. H. Atkinson | 37.90 | |
| Boston Mill Remnant Co. | 96.20 | |
| Dallman Company, Inc. | 69.59 | |
| C. B. Dolge Co. | 7.06 | |
| Dustbane Mfg. Co. | 6.37 | |
| Frank S. Eaton..... | 106.53 | |
| Economy Lubricating Co. | 88.83 | |

| | | |
|--|--------|-------------|
| T. C. Fife, Inc. | 1.67 | |
| Fort Hill Paper Co. | 244.37 | |
| Francis Brothers | 38.67 | |
| Hodson Brothers | 530.79 | |
| The Holmerden Co. | 172.69 | |
| Kenney Service Station | 10.00 | |
| John R. Lyman Co. | 7.15 | |
| Mass. State Prison | 99.85 | |
| Masury-Young Co. | 186.43 | |
| H. B. McArdle..... | 2.50 | |
| Midland Chemical Laboratories, Inc. | 9.00 | |
| Michigan Sanitary Supply Co..... | 15.22 | |
| Morandi-Proctor Co..... | 21.96 | |
| Municipal Light Dept. | 2.34 | |
| Proctor & Gamble Dist. Co. | 19.50 | |
| Pronto Company | 7.35 | |
| The Rustile Co. | 13.50 | |
| Fred F. Smith | 100.15 | |
| S. R. Stembridge Co. | 4.97 | |
| Stone & Forsyth Co. | 76.85 | |
| Otis P. Symonds & Sons, Inc. | .80 | |
| The Tropical Paint & Oil Co. | 10.70 | |
| The Vortex Cup Co. | 11.02 | \$ 2,269.52 |

Repairs: Buildings, Furniture, Grounds:

| | |
|---------------------------------|----------|
| Abbott Mattress Co. | 77.25 |
| Allen Shade Holder Co. | 698.54 |
| American Type Founders Co. | 29.40 |
| Anderson-Coffey Co. | 178.10 |
| E. E. Babb & Co. | 31.45 |
| W. Bancroft & Co. | 135.65 |
| W. C. Barrett | 19.25 |
| The Barrett Co. | 215.44 |
| Bayrd & Goodwin | 27.00 |
| J. G. Blount Co. | 7.42 |
| Board of Public Works | 56.27 |
| Burgess & Blacher | 1,513.80 |
| Braman, Dow & Co. | 6.16 |
| James W. Brine Co. | 6.00 |
| H. W. Bryden | 1.00 |
| Clapp & Leach, Inc. | 481.90 |
| Capitol Theatre Supply Co. | 5.10 |
| M. F. Charles | 15.40 |
| Chase, Parker & Co., Inc. | 29.73 |
| Church Film Co. | 121.40 |

| | |
|---------------------------------|----------|
| Clements | 7.12 |
| Cory Lindsay Co. | 18.37 |
| E. B. Currell & Son | 217.28 |
| Dallman Co., Inc. | 29.40 |
| Davis & Abbott | 25.00 |
| Dictaphone Sales Corp. | 17.02 |
| M. C. DiRocco | 2.94 |
| Dudley Lock Corp. | 54.18 |
| Ernst Hermann | 100.00 |
| Eastman Kodak Stores, Inc. | .33 |
| Frank E. Eaton | 9.00 |
| Emerson & Co. | 1.00 |
| T. C. Fife, Inc. | 3,346.20 |
| Alfred L. Fischer Co. | 12.25 |
| Francis Brothers | 19.30 |
| E. L. French | 95.83 |
| Frederick Frotten | 18.00 |
| Edward P. Garbati | 150.00 |
| General Fireproofing Corp. | 8.02 |
| W. T. Grant | 3.50 |
| E. L. Ham Co. | 138.80 |
| J. L. Hammett Co. | 674.60 |
| Harding Typewriter Co. | 127.45 |
| Heywood-Wakefield Co. | 82.78 |
| Hodson Brothers | 974.92 |
| L. M. Johnson | 2.90 |
| W. E. Johnson | 1.35 |
| Johnson Service Co. | 9.59 |
| Jordan Marsh Co. | 21.44 |
| Kenlit Mfg. Co. | 10.62 |
| Keystone View Co. | 16.92 |
| Edward Lappin | 2.40 |
| Louis I. Lyons | 3.00 |
| George W. Marshall | 3.00 |
| H. B. McArdle | 50.00 |
| H. T. Mellett | 10.13 |
| Esther Millett | 5.00 |
| H. Q. Millett | 5.00 |
| Municipal Light Board | 35.45 |
| Narragansett Machine Co. | 158.00 |
| New England Iron Works Co. | 17.00 |
| C. H. Ober | 126.72 |
| R. E. Ostrander | 492.54 |
| A. H. Packard | 13.55 |
| Albert Pick-Barth Co. | 85.63 |

| | | |
|--|----------|--------------|
| H. Harvey Quigley | 45.00 | |
| Reading Custom Laundry | .90 | |
| W. N. Reeves | 10.95 | |
| Remington Rand Business Service, Inc. .. | 41.18 | |
| George Robbins | 31.00 | |
| Royal Typewriter Co., Inc. | 103.05 | |
| Sani Products Co. | 3.12 | |
| Security Fence Co. | 127.00 | |
| Shepard, Clark Co. | 17.64 | |
| Fred F. Smith | 7.68 | |
| Harry E. Smith | 2,788.22 | |
| W. A. Snow Iron Works, Inc. | 374.00 | |
| Spencer Co. of Boston | 19.00 | |
| Standard Electric Time Co. | 20.74 | |
| Percy N. Sweetser | 37.50 | |
| The F. H. Stevens Type Co. | 1.50 | |
| S. Stephens & W. Quoin Co. | 17.27 | |
| The Swan Company | 117.60 | |
| Stoneham Dye House & Rug Cleaning Co. | 199.00 | |
| A. M. Surette | 74.40 | |
| Percy N. Sweetser | 36.00 | |
| Town of Reading Tree Warden Dept. | 27.50 | |
| Underwood Typewriter Co. | 7.79 | |
| Wakefield Laundry | 1.25 | |
| J. W. White Machine Co. | 2.25 | |
| George H. Whitney | 13.50 | |
| A. J. Wilkinson & Co. | 53.28 | |
| Wolverine Equipment Co. | 114.17 | |
| Yawman Erbe Mfg. Co. | 61.00 | |
| Dominick Zanni | 255.76 | \$ 15,469.04 |

Agricultural Account

Books and Supplies:

| | | |
|---|----|-------|
| R. G. Adams Co. | \$ | 2.66 |
| American Nature Association | | 3.00 |
| Cherry Burrell Corp. | | 3.55 |
| Francis Brothers | | 25.64 |
| Hodson Brothers | | .70 |
| Horticulture | | 2.00 |
| The Macmillan Co. | | 9.94 |
| Meredith Publishing Co. | | 1.00 |
| Old Corner Book Store, Inc. | | 5.03 |
| Fred F. Smith | | 1.00 |
| Tercentenary of N. E. Agriculture | | 2.50 |
| United States Post Office | | 4.03 |

| | | | |
|-----------------------------|-------|----|--------|
| Webster Publishing Co. | 2.31 | | |
| John N. Weston | 15.00 | | |
| Hermon T. Wheeler | 91.82 | \$ | 170.17 |

Industrial Tuition

| | | | |
|--|--------|----|----------|
| City of Boston | 348.95 | | |
| City of Everett | 41.45 | | |
| City of Somerville | 669.07 | | |
| Lynn Independent Industrial Shoemaking School | 15.00 | | |
| Wakefield School Dept. | 81.00 | \$ | 1,155.47 |

Land Purchase Account

| | | | |
|-------------------------------|----|----------|--|
| Boston & Maine Railroad | \$ | 1,500.00 | |
| Joseph D. Knight | | 1,900.00 | |

\$ 3,400.00

Junior High School Playground Acct.

| | | | |
|-----------------------------|----|----------|--|
| Board of Public Works | \$ | 7.56 | |
| Davis & Abbott | | 331.50 | |
| Samuel H. Davis | | 8.00 | |
| John E. Hand | | 100.00 | |
| Ernst Hermann | | 425.00 | |
| Dominick Zanni | | 4,127.94 | |

\$ 5,000.00

**REPORT OF THE SUPERVISOR OF ATTENDANCE OF THE
READING PUBLIC SCHOOLS FOR 1931**

Mr. Adelbert L. Safford,
Superintendent of Schools,
Reading, Massachusetts.

Dear Mr. Safford:

In submitting for your approval this report of the work of the attendance department during 1931 I wish to call attention to the fact that the current crisis in financial circles has perhaps struck the schools in a way also, in that it has given us added enrollment and has possibly accounted for increases in truancy and difficulties in school adjustments. In Reading our policy has always been to keep in school all who would benefit from continued attendance, but even though we do this there are always some boys and girls, especially those of low

mental ability, who lose interest and find employment of some kind. In times like these we have by law to keep these children in school because there are no avenues open for employment for them. We have been able this year to find some way to handle most of these cases and to keep happy these boys and girls in our own classes. Trade schools, shop courses, agriculture, and the like require good mental ability to master and we can hardly require teachers of these subjects to handle disciplinary cases for us. This would be unfair to the bright pupils who desire to benefit from these courses and have a right to do so. I can count as many as twenty cases of truancy in pupils this year who are of low grade mentality, between the ages of 14 and 16, and deriving little or no benefit from our schools as at present constituted. Ordinarily these pupils would find some employment and relieve the schools. But relief for the schools might perhaps mean burdening the courts and our institutions later on, as it has in the past to our knowledge. Reading has gone further than many school systems in caring for this class of pupils, but there is still much to be done in training in right habits of living in the mentally low grade child. With good training he is an asset to the community; with little training or poor training he is a liability, leaving school early, marrying young, and never earning a living wage for himself, let alone for a family. Personally I feel that we should oftener ask and work for commitment to our state training schools of more of these pupils than we do. No school system can afford to have the facilities for training that we find at Waverly, the Middlesex Training School, and other schools of similar aims. We would save for the future good of the state and town many by even a year or two of clean, wholesome living and practical training.

Home conditions in good or bad times are always a large factor in the behavior of children in school. Indifferent and ignorant parents, broken homes, poverty, immorality—all these and other such causes contribute to problems at school. We have some homes in Reading where conditions are truly demoralizing and no one who knows about them wonders that the children do poorly in their studies and do not make good citizens of the schools in which they are placed. In some instances we are able to encourage and help these children to do well in school in spite of their social handicaps, but in many instances we cannot provide material and spiritual comfort sufficient for them to "make the grade" and must ask assistance from local agencies, such as the Welfare Board, through the visitor, Miss Helen Brown, or we turn to the Massachusetts Society for the Prevention of Cruelty to Children, or the Children's Aid. Benevolent citizens also help us by providing clothing and sometimes homes where needed, but the majority of our citizens, being themselves good fathers and mothers, do not realize that in our midst we have some parents who

are not as they are. They don't feel that they are "their brother's keeper" and do consider a "man's home is his castle" whether or not it is fit to live in. Parents who will not recognize that a child has criminal tendencies and check them; parents whose children are in the streets all the time and away from home when they should be under their supervision; parents who don't provide clean clothes, clean beds, and suitable food; parents who keep their children out of school unnecessarily, who send them on errands and make them tardy continually; parents who won't get up to get breakfast; parents who even turn their children outdoors; parents who won't clean up impetigo, scabies, pediculosis; parents who lay all the faults of their children on the other parent; parents who leave their families when it is hard sledding—we have them all in Reading. Many of them are emotional or mental misfits themselves and find their lots and their children's lots harder on that account.

In the main Reading parents live solely to rear and educate their children. They keep them in school, well fed and clothed, if they go without themselves. The parents I have mentioned above actually do exist in Reading and the teachers are wrestling with their children, conscientiously trying to make something worthy of the material they have had passed to them and possibly taking a lot of blame for the poorly finished product. Not only the schools and the church must work with these children, as they do and always have done, but the citizens of the town must help these parents see that their children deserve better than they are receiving,—not material things especially, as it does not hurt anyone to go without luxuries; but clean, comfortable, and cheerful home conditions are possible in nearly every case I have mentioned and, if every child in Reading lived in such a home, I feel sure we would have very few serious problem cases in our schools.

Of persons in charge of children and deliberately keeping them from school we have practically none. Usually it is weakness on the part of parents which permits boys and girls to do as they themselves wish, rather than anything deliberate on the part of the parent. Occasionally a stubborn case of this nature has been encountered in the last eight or nine years, but they are very rare. Consequently the attendance work in Reading is distinctly a social service and requires many home visits and letters, as well as conferences with both pupils and parents. Some of this has to be done in the evening, Saturdays, and occasionally Sundays. In most instances the parents are very co-operative when they really understand how necessary it is that their children attend school regularly and promptly and I have found my work congenial and interesting. I have enjoyed the co-operation of the local police, the Town Welfare, the Visiting Nurse, the S. P. C. C., the teachers especially, and our School Health De-

partment, as well as of Miss Wadleigh and the School Committee. To you personally I owe much for the wise counsel and the encouragement I have received when things were going hard.

Respectfully submitted,

ABIGAIL H. MINGO

Supervisor of Attendance

Reading, Massachusetts, December 31, 1931.

REPORT OF THE MANAGER OF CAFETERIAS OF THE READING PUBLIC SCHOOLS, 1931

Mr. Adelbert L. Safford,
Superintendent of Schools,
Reading, Massachusetts.

Dear Mr. Safford:

I herewith submit a brief report on the condition of the school cafeterias, located in the Senior High School, the Junior High School, and the Highland School.

The year 1931 has been successful financially, since all we expect is to pay expenses, and we have done that. We finished the year with all bills paid and with a small balance and some goods on hand. We have kept our working force at a minimum in all the lunch rooms and have bought very carefully, as we have felt that at this time especially we must furnish wholesome and low-cost luncheons to the children, many of whose parents have received substantial reductions of income. Always, however, the best materials are used, so that with the economical and good cooks we have been able to secure, and fresh, high grade ingredients we have no hesitation in saying that our lunches give as good a lunch for the money as can be procured in any other school lunch room. Many people tell us that we give more and better food than most others.

Some of the equipment in the High School kitchen is antiquated and worn and I would like to see replacements and improvements there. The Highland School kitchen should have a new stove. Of course the Junior High School cafeteria is well equipped and will need nothing done there except perhaps a linoleum for the floor and the walls retinted.

There has been some question about the price of the milk we are serving. I wish to say that we are receiving Grade A milk, which is guaranteed fresh and of a high butter fat content. The price was agreed upon for the year and we cannot change it now. No doubt before long milk will take a jump in price, but I don't feel that we

can ask for better service or better milk than we are getting at the present time. The fact that there is a milk war on does not concern us much. I am planning to serve a milk chocolate drink in the High School cafeteria before long which will cost the same as the milk at the counter and which will give in addition to a rich milk the richness of the chocolate. While the milk question is being settled those who wish may try this other drink at the same price. If this drink is liked by the High School pupils, we may try it at the other cafeterias.

So far as I can see now, we will continue in 1932 the policies followed in 1931, with reference of course to any suggestions that we may receive from time to time from interested persons.

Respectfully submitted,
ABIGAIL H. MINGO
Manager of Cafeterias.

Reading, Massachusetts, December 31, 1931.

REPORT OF THE DEPARTMENT OF RESEARCH AND ELEMENTARY SUPERVISION

Superintendent of schools, Mr. A. L. Safford, and Members of the School Committee:

I present herewith a partial resume of the work of the Department of Research and Elementary Supervision for the year ending December 31, 1931.

The testing program with its resulting remedial work, individual adjustments, promotions, grading, and ability grouping was handled by the department in the usual way. Emphasis this year has been placed on Curriculum Revision and an organized Supervisory program in the first six grades.

The latter includes a Unitary arrangement of subject matter in all grades, a program of primary social studies, setting up new time allotments and establishing uniform, definite requirements in each of the first six grades.

Curriculum Revision

Early in 1930 I gave out in teachers meeting a bulletin to the teachers of Grades V-VI appointing committees including all the teachers in curriculum revision with the following outline for our goals.

1. Meet together frequently and discuss plans for teaching subject.
2. Set up main objectives.
3. Outline the material to be covered.
4. Divide the outline into Units of Work.
5. Define Minimum Essentials of course for the Average group.
6. Suggest what can be accepted as enrichment material.

7. What projects, extra work, suggestions for original contributions may be accepted for the highest level of each unit, graded as I.
8. Make out:
 1. General Assignments, weekly—monthly.
 2. Specific Assignments for one to three days or short space of time.

Up to June 1930 we had accomplished the first three points including an outline of work in each subject. We were therefore ready in the fall to divide the outline into "Units" and adopted the Morrison technique. We were very fortunate to have the benefit of Dr. Wilson's course to give us the necessary theory and directions for formulating and teaching our units of subject matter. Up to Jan. 1, 1932, we have completed the following courses of study, others are still under revision.

Reading: Grade I, a division of the year's work into Five Units to serve not only as a guide for teaching, but also as a basis for promotion.

Grade I—VI accepted the simplified Baltimore goals for grade requirements and adopted the Bolenius revised basal methods, Grades I—III and Winston readers as basal for Grades IV—V—VI.

Arithmetic: Established in spiral formation a complete course of study Grades I to VI. The arithmetic course of study has been divided into Units of Work by Mrs. Wilcox in Grade V, and by Miss Bauer in Grade VI. Both teachers have done a very careful piece of work, complete with references, model examples, tests, and guide sheets.

Language: Miss Quillen has completed an excellent course of study in units for sixth grade. Mrs. Potter has Grade V outlined ready for unitary arrangement.

We are considering an enrichment of primary language by a new workbook series and possibly a new basal text for grades three and four.

Geography and History: Miss Gamble and Mrs. Potter have worked out a unitary development of topics in Grade V Geography which promises to be of great value both as a teaching aid and a study guide for the pupils. This course will be ready for use as soon as the necessary reference library is procured.

Miss Allard in Grade V has completed an excellent unitary outline of work in history complete with outline, tests and work sheets according to the Morrison technique. She followed Miss Kelty's general plan for the History of the United States in Grade V and has done much careful research into all outstanding courses for this grade. Miss Grace has Grade VI outline now under revision.

Social Studies in Primary Grades: Last year we became very much interested in teaching the social studies through the child's own activities in Grades I to VI.

Our purpose in this work is to combine and correlate informations in history, legends, geographical facts, health and safety teaching, and citizenship into one unit or series of units based on the children's own experiences.

We began our study of this work in teachers' meetings at which the subject supervisors and several teachers contributed and Miss Joslyn, Lynn supervisor, gave us a lantern-slide talk on the Lynn Activity Program of Social Studies. Several teachers reported on visits to Lynn and to Providence. All teachers were left free to work out their own interpretation of any activity they wished to, checking it as to worth in subject-matter value and time valued by the following Activity Analysis Sheet sent out by the Supervisor:

Activity Analysis Sheet Reading Schools

1. Unit of Work.
2. Activity Involved.
3. Outcomes of Learning.
 - a. Subject Knowledges.
 - b. Specific Skills.
4. Social Values.
 - a. Attitudes.
 - b. Appreciations.
5. Time Values.
6. Special Interests and Results Noted.

In the fall a set of citizenship readers was introduced to serve as a basis for the Social Studies program and a series of topics to develop in each grade. I appointed Grade Committees who would meet together and discuss methods for carrying out the topics selected for their grade.

The whole idea of Social Studies taught through projects or child-activities is to allow the child to really see, experience and do something and thus make the informations more real to him.

There is nothing particularly new in the idea of teaching several subjects through one Unit of Work, but it is the first time we have tried to organize the work under one head and have each grade attempt it in a uniform manner. Besides the Social subjects, Penmanship and Drawing and Language become a part of every activity.

A well-planned activity unit will save the teacher much time which can be applied to the fundamental subjects.

The Primary teachers have shown much interest and a good professional attitude toward this new work and the suggestions by the supervisor. They have been very patient in attending teachers' meetings and have contributed many helpful suggestions of their own. Any success in this program or any other is dependent upon the

teachers themselves; the supervisor can only organize, suggest and advise.

For the benefit of the teachers in Grades I to IV, I listed in as brief a form as possible what courses of study, texts, etc., we are expected to follow and the requirements for each grade. Because this outline contains the topics of the social study programs, and meets innumerable requests from outside, I herewith submit the outline:

Course of Study Requirements Reading Public Schools Grades I to VI Grade I

Reading: Course of Study for the Reading Schools Grade I Requirements: Courtis-Smith Series I; Bolenius Primer, "Tom and Betty" with workbook for same. Courtis-Smith Series II. (Two primers and One First Reader).

Arithmetic: Clark-Otis-Hatton: First Steps in Teaching Number. Games and Informal Number first half year. See C. O. H. number objectives pages 4 and 5 Part I.

Language: Manchester Course of Study in English Grade I. Correlate with Activity or Social Studies Program.

Citizenship: "Home" Citizenship Reader by Lippincott Co. Basis of Social Studies for Grade I.

Social Studies Program: Texts: Teachers' Guide to Child Development U. S. Office of Education (1930) Bul. No. 26; The Social Studies In The Primary Grades, Storm; The Activities Curriculum, Stevens. Topics: Meaning of the holidays; Children of Other Lands; Home Life; Farm Life; Milk Unit; Playhouse; Dolls; Toy Making; Study of Pets and Animals. Parties for Mothers, Little Brothers and Sisters.

Nature Study: Child's own surroundings: Suggestions: Study of Birds; Study of Flowers; Study of Native Wild Animals.

Health and Safety: Part of Social Studies Program. Text: The Safety Hill of Health, Loomis and Shaw.

Grade II

Reading: Requirements: 2 basal readers, 1 supplemental; 1 pleasure. Baltimore Course of Study. Texts: Bolenius First Reader "Animal Friends" with workbook for same. Fact and Story, Bunny Rabbit's Diary; Laidlaw readers and other standard texts for Supplemental. Library table for Pleasure Reading. Bolenius Second Reader "Happy Days" to be completed in Grade III.

Arithmetic: Clarke-Otis-Hatton First Steps in Teaching Number. Part II page 82. Follow closely.

Language: Manchester Course in English Grade II. Correlate with Social Studies Program. A Primary Language Workbook. Mac-Millan.

Spelling: Growth In Spelling Book I. Thorndike and Wolfarth.

Citizenship: "City and Home," Citizenship Reader. Lippincott. Basis of Social Studies Program. "School Days" Book II Citizenship Reader optional for Grade II. Required in Grade III.

Social Studies Program: Texts: See Grade I. Topics: Community Life, Play City, Public Buildings, Marketing, Grocery Store, Post Office. Study of Indian Life. Eskimo Life. History Legends. Geographical Facts.

Nature Study: Child's own surroundings. Nature Activity Reader Book I, Little Brown Co.

Health: Part of Social Studies Program. Text: *Building My House of Health*—Lummis and Shaw.

Grade III

Reading: Minimum Requirements, Baltimore: 1 basal text, 2 supplementary. "Happy Days," Bolenius Second Reader. "Door to Bookland," Bolenius Third Reader. Required Supplemental: Citizenship Readers and others.

Arithmetic: Follow Reading Course of Study in Arithmetic. Texts: Clark-Otis-Hatton. Modern-School Arithmetic Third Grade.

Language: Manchester Course in English Grade III, Self-Helps in English, Book I, Wolfarth-Mahoney World Book Co.

Spelling: Growth In Spelling. Thorndike-Wolfarth.

Citizenship: School Days—Book II. Citizenship Readers. Good Citizens' Club—Book III, Book II and III.

Geography: Home Geography. Text: "Home Folks", Smith, Winston Co. Projects. Study of Social Types: Dutch, Swiss, Chinese, etc.

History: Local and Pioneer History. Stories of American Pioneers. Heard-King, Winston Co. and others. Basis of project work. Topics: Study of Transportation.

Nature Study: Nature Activity Reader Books II—III. Study of Months or other topics.

Health: Text: *A Journey to Healthland*—Andres.

Grade IV

Reading: Baltimore goals: Requirements: One Basal Fourth Reader, two Supplemental texts.

Winston "Facts and Fancies", Basal. Study Readers, Bolenius Fourth, Good Reading—Lewis and Rowland, Teamwork, Citizenship Reader, and other Supplemental.

Arithmetic: Clark-Otis-Hatton. Modern-School Arithmetic Fourth Grade. Follow Reading Arithmetic Course of Study.

Language: Manchester Course in English. Self-Helps in English. Wolfarth-Mahoney. Other supplemental texts and workbooks.

Spelling: Growth In Spelling. Thorndike-Wolfarth.

Citizenship: Teamwork, Citizenship Reader—Lippincott. See History.

Geography: Human Geography. Book I Part I. Peoples and Countries; the Globe, Continents, Oceans. North America, United States (in part.)

History: Text: Following Columbus. Explorers, Discoveries. Projects correlate with Teamwork, Citizenship Reader. Topics: Study of Food; Clothing or Shelter in all lands. Industries of New England.

Nature Study: Nature Activity Reader Book III. Topics: Study-the Sky. See Library table for books on Science and Nature Study.

Health: Land of Health, Hallock and Winslow.

Time Allotments: Revising the time allotments for the Reading schools involved much study and many changes in order that it should compare more favorably with the standards given by the Bureau of Publications and Statistics and at the same time deal fairly with all the special subjects added to the curriculum in recent years without taking too much time from the necessary fundamentals.

The correlation of Social Studies, Health, Safety and Citizenship makes it possible for us to give more time to fundamentals than is required for standard. Several teachers have said that they have more time this year than ever before and the feeling of being crowded by too many subjects has been done away with.

When the time allotments were sent to the teachers for the first trial a survey and check on each teacher's program was made. A sample program for a three-group-room providing for seatwork as well as recitation is herewith presented with the time allotments. In each classroom in the Reading Schools, a revised Time-Allotment Schedule and the teacher's corrected program is required to be displayed at all times.

Time Allotments Reading Public Schools

| Subject | I | II | III | IV | V | VI |
|----------------------------|-----|-----|-----|-----|-----|-----|
| FUNDAMENTALS: | | | | | | |
| Reading | | | | | | |
| Basal text and Phonics | 700 | 525 | 300 | 150 | 180 | 180 |
| Literature and Citizenship | | 100 | 100 | 100 | | |
| Arithmetic | 60 | 150 | 250 | 250 | 220 | 220 |
| Language and Story | 40 | 100 | 100 | 150 | 200 | 200 |
| Spelling | | | 75 | 75 | 90 | 90 |
| Penmanship | 100 | 75 | 75 | 75 | 80 | 80 |

SOCIAL STUDIES:

| | | | | | | |
|-------------------------|----|-----|---------------------|-----|------|-----|
| Geography | | | 100 | 180 | 120 | 120 |
| History | | | | | 155 | 155 |
| Nature and Science | 20 | 20 | 20 | 30 | 35 | 35 |
| Citizenship | 50 | Cor | Read & Inc. | in | Hist | |
| | | | Activities | | | |
| Health and Safety | 20 | 20 | 20 | 30 | 65 | 65 |
| Projects and Activities | 30 | 30 | Correlate | | | |
| | | | with Social Studies | | | |

SPECIAL SUBJECTS:

| | | | | | | |
|---------------------------|------|------|------|------|----------|------|
| Art and Drawing | 60 | 60 | 60 | 60 | 80 | 80 |
| Music | 75 | 75 | 75 | 75 | 75 | 75 |
| Household and Manual Arts | | | | | 60 | 60 |
| Physical Education | 75 | 75 | 75 | 75 | 125 | 125 |
| Recess—Relaxation | 125 | 125 | 125 | 125 | Lunch | 150 |
| Opening Exercises | 50 | 50 | 50 | 50 | 75 | 75 |
| Supervised Study | | | | | 50 | 50 |
| Unassigned or | | | | | Assembly | |
| Free Time | 20 | 20 | | | 45 | 45 |
| Totals | 1425 | 1425 | 1425 | 1425 | 1800 | 1800 |

Center School
A Three-Group Room

| Time | Teacher Activity & Recitation of Pupils | Pupil Seatwork Program | Time Totals per week |
|-------------|---|---|-------------------------|
| 8:45—9:00 | | Correct Spelling, Library Period, Check Work Books | |
| 9:00—9:10 | Opening Exercises, | Inspect. Devotions, Flag Salute | |
| 9:10—9:30 | Reading C | Op. E. | 50 |
| 9:30—9:50 | Reading B | Written Arith, B & A Read C | 100 |
| | | Wr. Arith. C Gates—Huber Wk. Bks. A, | Read B 100 |
| 9:50—9:55 | Relaxa'n Serve Milk | | 25 |
| 9:55—10:15 | Reading A | B & C C. S. Series 11, Read story, follow | Read A 100 |
| 10:15—10:20 | Recess | directions at end of same | 25 |
| 10:20—10:35 | Physical Education | | 75 |
| 10:35—10:55 | Language & Spelling | | 100 |
| 10:55—11:05 | Arithmetic C | B & A Written Spelling When finished Spelling C Arith. | 50 |
| 11:05—11:15 | Arithmetic B | C & A Written Spelling each class goes on B Arith. | 50 |

| | | | |
|-------------|---|--|-----|
| 11:15—11:25 | Arithmetic A | B & C Written Spelling with his particular Silent Reading, has Library privilege, or does follow-up work, Arith. | |
| 11:25—11:45 | Nature Health Literature Check Work Books | | 100 |

NOON HOUR

| | | | |
|------------|----------------------|--|------|
| 1.15— 1:30 | | Correct numbers, check work, library, or seat work | |
| 1:30— 1:45 | Reading C | B & A follow directions from board or hectographed | 75 |
| 1:45— 2:00 | Reading B | copies Silent Reading. Based on Bolenius or Citiz. | 75 |
| 2:00— 2:15 | Reading A | A & C continue Silent Reading Seatwork. | 75 |
| 2:15— 2:30 | Recess | | 75 |
| 2:30— 2:45 | Music | | 75 |
| 2:45— 3:00 | Penmanship | | 75 |
| 3:00— 3:30 | Drawing: Mon. Thurs. | Citizenship: Tues. Wed.; Activity, Friday | 150 |
| Total | | | 1425 |

Testing and Promotion Statistics: The testing program has been carried out as in past years. No tests have been given except when the results were actually needed for remedial work or promotion basis.

The Stanford Achievement tests came out higher in the spring of 1931 than ever before in the history of our testing.

Grade VI was within one point of the highest norm and Grade V higher than ever before. Grade IV, which in previous years has been our highest grade, suffered a slight drop because of the unprepared 3 1-2 group. Grade III went over the top three or four points also Grade II (Grade 1 1-2 not included in the statistics, but regarded as Grade 1, advanced).

Grade I was our special pride and joy. It tested 2 points over the norm and 5 points over what it has ever been before.

All promotions were supervised by the Research Director as in previous years. We made a special effort to send on as few unprepared pupils as possible, those few were marked "on trial".

Over 1200 children were promoted individually in the first six grades last spring, and in no case was there a conflict of opinion among the teacher, principal and director. Our promotion policy gives the child every possible chance of attaining a new classroom situation every year, at the same time we do not approve of sending a child on to a new grade of work before he has mastered the old.

We now promote grade I pupils on the basis of the Units of Work covered and do not allow anyone to be rated as Grade II before they have satisfactorily completed the Curtis-Smith Series I and II and Bolenius Primer and workbook.

The first three grades are the most important in a child's life. It is there that he receives the tools of reading and number, and if he fails to master them he is handicapped the rest of his life. One reading specialist has said that if a child does not learn to read by the time he is eight years old he may never learn because no one will ever take the time to teach him. That is why we have classes of special instruction and remedial classes.

Our aim in the elementary grades is to send a well prepared, mature, and dependable group to the Junior High School. At the same time standards are not our only aim, the welfare of the individual child comes first always.

Report Cards: The new report cards in the Intermediate grades and Special Classes are not the best we hope to achieve, but will serve us for this year at least. The "Notices to Parents" are to be sent out at any time when a teacher wishes to call parental attention to any deficiency in a child's work and conduct. These notices will serve in Grades I-II-III in place of formal report cards.

Opportunity or Classes for Special Instruction: We have had some very gratifying results from our Opportunity Schools this past year. Because of the many children who make straight grades after the special instruction they receive there, I prefer to refer to these schools as Classes for Special Instruction.

It is a great privilege for pupils to attend these classes where the instruction is nearly that of high-class, private tutoring and every possible opportunity for progress is offered to each individual child.

Reading has provided generously for every class of a typical child except the Hard-of-Hearing. May I make a third plea in behalf of these children for the attention of the school committee to their problem, involving the services of a part-time lip-reading teacher and very little additional expense.

Before I close my report may I express my desire to be of service not only to the children of Reading, but also to their parents. The Research Director is the one who holds the records of each child's school progress and factors affecting it from the time he enters the school through the Senior High. It is the business of the Director to interpret these records for the parent as well as for the teacher. Whenever a parent wishes to consult me in regard to a child's ability, achievement and plans for the future, I am glad to place such information as I have at their disposal.

When the department claimed the services of two workers it was possible for one to do visiting-teacher service and go to the homes. Since we have lost Mrs. Lucas' able service in the department this phase of the work, home visiting, has had to be transferred to the Principals or left to the parents to consult the director when they wish to secure a new adjustment for the child or advice on matters relating to school work.

Now that the organization work in the field of supervision is fairly done in the line of time allotments, courses of study and methods, I hope to spend more time in actual classroom visitation, assisting the teachers as much as I can. I am more than grateful to the teachers of Reading for their whole-hearted and able assistance in getting my supervisory program started. I hope to serve them and work in close co-operation with them in carrying out the educational policies of the Reading Schools.

In closing my report may I express my appreciation for the opportunity Mr. Safford has given me to promote such educational ideas of my own as meet with his approval and for the privilege of putting into practice his most progressive theories under his able direction.

Respectfully submitted,
VERNA L. WADLEIGH

Director of Research and Elementary Supervisor

REPORT OF THE DIRECTOR OF HEALTH OF THE READING PUBLIC SCHOOLS FOR 1931

Mr. Adelbert L. Safford,
Superintendent of Schools,
Reading, Massachusetts.

Dear Sir:

I submit herewith for your examination and approval the report of the Health Department for the year ending December 31, 1931.

In many ways the year just ended has been an especially trying one for the department. The necessity of Miss Lord's being off duty for the month of June and of my being off during December because of illness meant a slowing up of the work for the time being, and, in each case, an added burden for the nurse left on duty. In addition, the department suffered a distinct loss this fall in the resignation of Miss Lord, who accepted a position in New York State. Her position was filled by Miss Kathleen Hanscom, formerly theoretical instructress at the Griffith Hospital, Derby, Conn. The frequent

changes in the staff during the last few years have been a problem in that it requires an appreciable amount of time for a new nurse to become acquainted with the work and the community. Should another change occur, it would seem advisable to do away with the position of assistant nurse and employ instead a full time clerk for the department.

In spite of the above handicaps, the accomplishments of the year compare favorably and in some ways surpass those of last year. An analysis of the various activities of the department follows:

Medical and Nursing Service

The school physician has continued to devote a generous amount of time to the school work. Daily inspection was made in several of the schools during the prevalence of the measles. A great deal of time this fall was given to the examination of pupils. During the months of March and April approximately six afternoons were spent on diphtheria prevention work. Throughout the entire year Dr. Henderson has been on call and has made about daily visits to the schools to pass upon one question or another.

A schedule of weekly visits to the schools was maintained by the nurses. During these visits a rotating scheme of work covering a period of a month was carried on as follows: 1st week, inspection of pupils for cleanliness, symptoms of contagion, defects, etc.; 2nd week, check-up of special pupils, vision or hearing tests, etc.; 3rd week, check-up of health education work, interviews with teachers and individual pupils; 4th week, weighing of pupils. The foregoing schedule was of course subject to change according to the needs of the school.

A statistical report of this phase of the work shows:

| | |
|------------------------------------|--------|
| No. of visits to schools | 478 |
| No. of pupils inspected | 15,483 |
| No. of pupils weighed and measured | 3,688 |
| No. of pupils weighed | 1,542 |
| No. of vision tests | 145 |
| No. of audiometer tests | 1,593 |

In conjunction with the school physician, 2,202 pupils were given health examinations this fall. Of this number 540 were found with defective teeth; 177 with enlarged tonsils; 74 with symptoms of adenoids; 100 with enlarged glands; 38 with heart conditions; 2 with hernias; 5 with miscellaneous defects, and 1,469 with various degrees of defective posture ranging from round shoulders to pronated feet.

Audiometer tests were given from the fourth grade through the Senior High School. One hundred and thirty-one pupils showed hearing losses of nine or more units in one or both ears. These cases were followed up and further examinations urged. Of the one hundred and thirty-one, five could hear nothing on the audiometer and

forty-seven had hearing losses of fifteen or more units. It is definitely recommended by authorities that such cases have lip-reading training. This service could probably be taken care of by a part-time teacher and should receive the serious consideration of the school committee.

The amount of time that has to be spent on clerical work is deplorable. The keeping of the physical and school nurse records of over two thousand pupils alone is a tremendous task. In addition, the clerical work incident to the various clinics requires time that might better be spent on home visiting or some educational phase of the work.

Home visiting has continued to be a most important part of the nurses' work. Last year 840 visits were made to the homes for one reason or another. This figure represents an increase of approximately two hundred visits over any other year.

Intensive work has been done to secure the correction of defects and in this work we have had splendid co-operation from the parents. The present economic conditions, rather than indifference on the part of the parents, have deferred and prevented the corrections in some cases. On the other hand, the continued excellent co-operation and financial assistance that we have received from the various local agencies and local physicians has contributed to this important phase of the work.

Clinical Services

The value of health work in our schools has been greatly enhanced by the contributions of the various clinics, the following of which are under the direct supervision of the health department although financed by outside agencies.

Dental Clinic

The overcrowded condition at the dental clinic, noted in last year's report, was in part relieved this fall by the operation of the clinic an extra day a week. The extension of time was made possible by an appropriation from the Board of Health. Unfortunately, the amount allotted was sufficient to operate on the new basis to January first only, so that after that the clinic will operate on a two-day a week schedule. The clinic, equipped by the Red Cross in 1921, has been maintained by the joint efforts of the Red Cross and the Reading Good Health Committee.

The year's report at the clinic shows the value of the work that is being done: 234 examinations; 180 cleanings; 1,276 fillings; 354 extractions; 152 treatments.

One thousand, one hundred, forty-two visits were made by two hundred sixty-two children, an average of four visits per child.

The clinic has co-operated with the Pre-school Clinic in handling pre-school children. Preference has always been given to child-

ren of the lower grades as it is at such age levels that real preventive work can be done.

Schick Clinic

During the year the department completed the ninth year of its campaign against diphtheria. This important work has been carried on each year until a large percent of our school population is now immune. Since the beginning of the diphtheria prevention work in 1923, 2,295 children have been given the Schick test and 1,879 children have received the immunizing toxin-antitoxin. An encouraging feature of the work is the increase in the number of pre-school children that are attending the clinics each year. This has been accomplished, I feel, largely through the efforts of reaching the children preparatory to coming to school by means of the Registration and Summer Round-Up.

Seven clinics were held during March and April at which the total attendance was 906. Of the 204 pupils Schicked, 179 had negative re-actions; 19 had positive re-actions; 3 had combined re-actions, and 3 were never read. Of the 187 immunized, 102 had three inoculations; 20 had two; and 5 had one. Fifty-one of the one hundred eighty-seven immunized and fifteen of the two hundred four Schicked were pre-school children, their ages ranging from ten months to five years.

Posture Clinic

The organization of the Posture Clinic was the same as last year. The clinic continued to meet once a month at the Grouard House with Dr. A. R. MacAusland of Boston in charge. Cases were referred by local physicians, by the school physician, and nurses, and by the physical education teachers. The Reading Good Health Committee has continued to finance the clinic and in many instances has paid for appliances where the parents were unable to pay.

Since the beginning of the clinic in 1928, 214 pupils have been under its care. All pupils of the Reading schools are eligible for treatment.

Habit Clinic

Since June the clinic has been operating as a weekly instead of a monthly clinic, with the place of meeting changed from the Grouard House to the Town Building. The idea of the State is to make the clinic available to the surrounding towns with Reading as the center. In view of the fact that many of the places which the clinic aims to serve are larger than Reading, we should feel honored that Reading has been selected as its headquarters. This past year completes the eighth year of the clinic's work in our town. The state, in furnishing this type of remedial service, is playing a fundamental part in the development of well rounded, socially acceptable personalities.

Examination Clinics

The preliminary X-Ray examination in connection with the annual check-up of underweight children, tuberculosis contacts, and special cases was held at the High School January 30. On March 11, 12 and 13 the forty-five cases X-Rayed were given thorough chest examinations by an expert from the State Department of Public Health. As a result of the clinic, one pupil was recommended for sanatorium care and another for hospital care because of a serious liver condition. This type of service together with the consultation service at North Reading Sanatorium provides adequate supervision for the special cases already mentioned.

Tonsil and Adenoid Clinic

Through the generosity of Dr. Richmond, Dr. Baisley, and Dr. Halligan, and with the co-operation of Miss Harrington, the Visiting Nurse, tonsil clinics were held at the Winchester Hospital, June 16 and 23. Twenty-five children were operated upon, many of whom could not have otherwise been attended to because of financial conditions.

Registration and Summer Round-Up

Registration for children entering school for the first time the following September was held at the High School March 9 and 10 and April 7. Of the 186 children entered in September, 154 or 82 per cent had registered. Of this number 133 had had physical examinations and returned their physical records as requested. A study of their records showed 93 children with one or more physical defects. While the number of physical defects corrected before admittance to school in the fall was slightly larger than last year, the total was still discouragingly small. Registration is properly the responsibility of the school; the examination of the children and the subsequent correction of defects, a responsibility of the parents.

Health Instruction

As in the past, the goal of our primary health teaching has been habit-training. Through projects, devices, and posters, the teachers of the lower grades have sought to develop the right health habits and attitudes on the part of the pupils. In the grammar grades, a widening of health knowledge has been assured by the use of recent and suitable textbooks. In the Highland School, where departmental work is done, the hygiene work has been under the direction of Miss Allard in the fifth grade and Miss Fogg in the sixth grade. The Cleveland Course of Study is used in these two grades.

The new State Course of Study in Health Education, now in the process of printing, will replace the Cleveland Course, and, together with the State Course in Safety Education, will form the basis of our health and safety instruction in the first six grades.

During the past year a limited number of textbooks and teachers' reference books were supplied to the ninth grade and have helped to broaden the course in that particular grade.

As noted in last year's report, there is lack of definite health instruction in the High School, except in certain specific subjects. This condition is not confined to Reading, but, unfortunately, is more or less general.

Since September the Mothercraft classes in the sixth grade, formerly taught by me, have been taken over by Miss Hanscom.

Other Activities

As a culmination of the year's health work Child Health Day was celebrated April 24. Programs for the children were held in the various schools in the afternoon, at which time the awards for good posture, dental correction, and diphtheria immunity were made. Banners to the rooms having the greatest number of individual awards were won by: Miss Musgraves' room, Center School, for good posture; Mrs. Cotton's room, Lowell St. School, for dental correction; Miss Dow's room, Prospect St. School, for diphtheria immunity. In the evening an elaborate program was held at the Highland School. The purpose of this meeting was to acquaint the parents with the various activities of the school health program through the actual presentation of these activities; and to familiarize them with the different state, local, and private agencies that contribute to the work. The success of the meeting was due in a large measure to the assistance rendered by a committee composed of representatives from the Reading Woman's Club, the Central and Prospect Street Parent-Teachers' Associations, the Reading Good Health Committee and each of the elementary schools.

The selection of children for summer camp was made in April and May. Each child was X-Rayed and given a complete examination at North Reading Sanatorium before being recommended for camp. Five children were sent for eight weeks to the Southern Middlesex Health Camp at Sharon.

The department continued to co-operate with such local organizations as the Visiting Nurse Association, the Red Cross, the Reading Good Health Committee, etc. The department is cognizant of the mutual benefit that results from this inter-working of the school and local organizations and is deeply appreciative of the contributions that the latter have made to the school health program.

May I take this opportunity to express my appreciation to everyone who has contributed to the health work.

Respectfully submitted,
MABEL M. BROWN, R. N.
Director of Health

Reading, Massachusetts, December 31, 1931.

REPORT OF THE SUPERVISOR OF PENMANSHIP, 1931

Mr. A. L. Safford,
Superintendent of Schools,
Reading, Massachusetts.

Dear Mr. Safford:

Herewith I submit a brief report of the penmanship department.

"Good writing is that which is plain in form and rapid in execution. Slow writing is of but little value, and illegible writing is a waste of effort. No one has a moral right to write illegibly because it means waste of time and effort to the writer as well as to the reader.

Good writing is acquired; not inherited. Intelligent effort rather than talent is necessary to learn it. It is a tool or instrument that helps children to carry on much of their regular school work."

Even in the primary grade, some general written work is required so that it is necessary that children acquire a correct writing process from the beginning. Not only should they acquire a healthful writing position, but they should produce a legible product.

In these days of little time for so many duties, it is quite necessary that pupils write with a certain amount of ease and rapidity.

Writing is used by children in their other school subjects much more than in the writing lesson itself, so it is with this point in mind that I wish to discuss briefly how we are correlating writing with our school subjects.

In a previous report, I stated how this was being done in the Junior High School. Now this is being done quite successfully throughout the grades.

In the Highland School, a great improvement over other years has been shown in this respect. In their English work, the pupils are using a text "Clark's Language In Use" where they read a chapter, then write a story telling how the subjects of that chapter overcome their difficulties, thus combining their own originality with language, writing, and drawing illustrations.

In history, a "Directed Study Book" is used in which a certain amount of writing must be filled in at the end of each paragraph.

In the primary grades, similar projects are being worked out in correlation with their activity programs. Last year, a number of the fourth grades made illustrated notebooks correlating geography, language, and penmanship, while others combined Nature Study (birds or flowers) with language and penmanship. In most cases, the pupils made their own illustrations for these books thereby correlating drawing as well.

The second and third grades worked out similar projects, combining health, language, drawing, and writing.

Even the first grades made an illustrated word study book, also a picture study book which correlated spelling and writing.

Each year, the Zaner-Bloser Company send for a set of our notebooks from each grade to be used in their various exhibitions throughout New England.

In stressing the correlation of writing with the various subjects the pupils more readily see that penmanship is not a subject by itself as was the old idea but, "a means to a definite end," that is—help in all written subjects. In this way, too, he learns to establish correct habit formation in sitting and writing well.

During the months of May and June, a "Parent Day" was set aside in each building to give parents and friends the privilege of seeing actual lessons in the correlation of subjects. Each supervisor was present and gave an actual teaching lesson on the subject which she represented.

There were notebooks illustrating the various activities studied throughout the year and showing how the various subjects are correlated one with another.

These meetings were well attended and both parents and friends seemed very much interested.

I feel very much pleased and encouraged with the progress and enthusiasm shown by teachers and pupils throughout the town. Surely with such splendid co-operation, the work of this department must progress.

Our certificates record follow:

Highland School

- 33 Grammar Grade Certificates
- 7 High or Business Certificates
- 11 Certificates of Excellence

Grade Seven

- 58 Grammar Grade Certificates
- 25 High or Business Certificates
- 11 Certificates of Excellence
- 1 Advanced Certificate

Grade Eight

- 30 Grammar Grade Certificates
- 24 High or Business Certificates
- 3 Advanced Certificates

I wish to thank the teachers and principals who have helped so much, each of the other supervisors for their splendid co-operation, and you, Mr. Safford, for your helpful assistance at all times.

Respectfully submitted,

MARGARET A. CAMERON
Penmanship Supervisor

REPORT OF THE PRINCIPAL OF THE SENIOR HIGH SCHOOL 1931

Mr. Adelbert L. Safford,
Superintendent of Schools,
Reading, Massachusetts.

My dear Mr. Safford:

The time-honored saying that a school in its elements is composed of a scholar on one end of the log and a teacher on the other is as true today as when it was first declaimed over one hundred years ago. I believe the original saying used the term scholar rather than pupil, the difference being that the former is one who learns and studies while the latter is one who simply places himself under the direction and care of a teacher. Through extension and reorganization beginning as early as 1900 the number of children attending the secondary schools of the United States has rapidly increased. In 1890 there were less than 30,000 enrolled in the secondary schools of the country. By 1928 this enrollment had increased to more than 4,200,000. What proportion of this enrollment can be classed as pupils and what as scholars would be hard to determine. But herein lies a vital difference, and the type of education must be modified to fit the difference.

Because the public secondary school has in the last decade recognized the unintellectual child, the school's holding power has increased. The holding power has increased to such an extent that graduation has come to be expected of nearly all pupils who enter the freshman class of the high school. This is especially true of Reading. In general all over the country fifty-one per cent of tenth grade or Sophomore pupils reach the Senior Class. Statistics for Reading on this basis are as follows:

| | Sophomores | Seniors | Per Cent |
|------------|------------|---------|----------|
| Sept. 1924 | 146 | 119 | 80 |
| " 1925 | 144 | 103 | 71 |
| " 1926 | 148 | 111 | 75 |
| " 1927 | 145 | 97 | 66 |
| " 1928 | 172 | 113 | 65 |
| " 1929 | 185 | 138 | 74 |

Thus it can be seen that the statement regarding the holding power of the school is particularly true of the Reading Schools, which have operated under the control of a school board which has attempted, very successfully, to cater to the needs of all its pupils.

As the holding power of the secondary school increases, the number of courses of instruction must of necessity become more diversified. In this respect Reading must be compared with such towns

as have a like population and which have a similar type of local interests and enterprises. A town of the same size as Reading which has a manufacturing element will not have the demand made upon it for so complete an educational system as has Reading. Other comparisons of the same kind can be made but are obvious and have no place here.

Bacon in his school statistics states that "seventy per cent of all high school pupils thirty years ago came from the highest fifth of human intelligence and at present this proportion has decreased to forty-five per cent. The present-day high school draws its pupil personnel from every group of the community. There is a constantly increasing heterogeneity with resulting diversity of background, capacity and potentiality." As has been noted above, this increases the variety of courses that must be offered in order to accommodate the pupils. Furthermore, Reading has adhered to the sound educational policy of the comprehensive rather than the expensive specialized school. In towns and cities where the specialized school, as, for instance, a trade school, has been in operation the tendency has been to make it increasingly comprehensive in response to needs manifested by the pupils.

College

In a recent paper Frederick Winsor says, "It is worth while to point out that the belief in a college education is something of very recent growth. Fifty years ago there was in America a very decided prejudice against the college man—today they all welcome him. What has happened since 1880 to cause this nation completely to change its estimate of the value of a college education? The answer is simple. America has observed the behavior and accomplishments of the college graduates and approved what it has seen. Before 1915 this change in appraisal was coming fast and the experience of the war settled the matter. There is no getting away from the evidence; it compelled a verdict in favor of the college man. This new faith, however, is just as unreasoning as the old prejudice and, therefore, just as blind. To people in general, what is an advantage to one man must be an advantage to every man, and so today it is almost an article of educational faith to say that every man should go to college.

"There are signs that colleges of the United States are beginning to insist on their rights as educational institutions to demand intellectual activity from the students. Colleges exist for the purpose of promoting intellectual training and for the advancement of knowledge. Sooner or later the colleges are going to insist on their rights to be truly temples of learning and when this change comes the attitude of the public toward a college education is going to be quite different from what it is today, and decidedly more intelligent."

People are going to perceive that only those who are fitted intellectually for serious thinking can really benefit from four years of

college. This new attitude of the public toward college education and the abandonment of the idea that preparation for college should be the educational end and aim of all secondary school training has been evident to the Reading school authorities for some time. In previous reports the writer has mentioned this matter and on this perfectly sound basis the high school has been operated. The aim of the secondary schools of Reading is to develop mentally the pupils in their teens in such a way as to encourage their talents and quicken their interests as they may require. The High School is attempting to break away from the "ready-to-wear" type of education and provide the "carefully tailored" education in its place. All schools must teach their pupils to think clearly and to consider the fact that the American free school should so educate its children that American ideals may be in safe hands.

Music

A report of the music director will be found elsewhere. However, I wish to state that the progress made in music this year under the direction of Mr. Peck has been extremely pleasing, both in the quality of the work and in the number of new enterprises developed.

Distribution of the Class of 1931

| | | | |
|-------------------|----|---------------|----|
| College | 14 | Post Graduate | 20 |
| Normal School | 3 | Office | 10 |
| Prep. School | 7 | Working | 18 |
| Art School | 2 | Nurse | 1 |
| Commercial School | 12 | Married | 1 |

At Home 17

The student enrollment in September 1930 and 1931 was as follows:

| | Boys | Girls | Total |
|------------|------|-------|-------|
| Sept. 1930 | 209 | 238 | 447 |
| " 1931 | 223 | 270 | 493 |

This gives a slight indication of the increase in numbers in the high school. This calls for the use of more than one additional room, and while the high school is not yet uncomfortably crowded it is getting to the point where crowding may take place unless an additional room or two is provided. By removing the Superintendent's Office to some other building we will have available a large room which will accommodate about fifty pupils. How the use of this room can be made available soon is a matter upon which I understand the School Board is now working.

In general our school year has been very successful. The records of our college pupils have been gratifying. The general activities of the school have gone on as usual. We have introduced this year the three-platoon lunch system, and while it has disadvantages, it has, in our opinion, enough advantages to warrant its con-

tinuation. From the standpoint of health we have been unusually lucky, having had comparatively few absences on account of serious illness among either the pupils or teachers.

Respectfully yours,

RUDOLF SUSSMANN
Principal of High School

READING HIGH SCHOOL

Class of 1931

Shepardson Hall

FRIDAY EVENING, JUNE TWELVE

at 8 o'clock

PROGRAM

| | |
|--|----------|
| FIELD OF GLORY | ADAMS |
| High School Orchestra | |
| PRAYER—Rev. Payson E. Pierce | |
| Salutatory | |
| NO VICTORY WITHOUT EFFORT | |
| Jean Marion Rossman | |
| CHORUS—MORNING INVITATION | VEAZIE |
| TORCH ORATION | |
| James Lyman Belknap | |
| ESSAY—A HIGHER LEARNING | |
| Barbara Jean Boardman, Faculty Honors | |
| VIOLIN SOLO—LIEBESFREUD | KRIESLER |
| Marion Amy Scott | |
| Accompanied by Emily Loretta Redfield | |
| ESSAY—THE HUMAN SIDE OF IMMIGRATION | |
| Patricia Littlefield, Class Honors | |
| ESSAY—PADEREWSKI (CRACOVienne FANTASTIQUE) | |
| Irvin C. Brogan, Faculty Honors for Class Spirit | |
| PRESENTATION OF CLASS GIFT | |
| Edward Converse Hodson, Acceptance by Principal | |
| CONFERRING SCHOLASTIC HONORS | |
| CHORUS—ON THE ROAD TO MANDALAY | SPEAKS |
| Valedictory | |
| THE AMERICAN GIRL AND HER COLLEGE | |
| Katherine Spencer | |
| CONFERRING DIPLOMAS | |
| Carl M. Spencer, Chairman of School Board | |
| BENEDICTION—Rev. William M. Crawford | |
| EXIT MARCH—CLASS DAY | ZAMECNIK |
| High School Orchestra | |

CANDIDATES FOR DIPLOMAS

Accounting Course

| | |
|-----------------------|---------------------------|
| Joseph P. Doherty | Richard Gill |
| Dorothy Ethel Johnson | Richard Kenneth Mansfield |
| Nelson Paul O'Brien | Thelma Mary Riessle |
| James Edward Robbins | Willard M. Walsh |
| John Edward Wilkinson | |

Agricultural Course

| | |
|---------------------------|--------------|
| Lewis Wellington Newhouse | Arthur Smith |
| Karl Vincent Struss | |

Classical Course

| | |
|------------------------|--------------------------|
| Ina Helen Bergquist | Barbara Jean Boardman |
| Irvin Cornelius Brogan | Lillian Elaine Comey |
| Mary Elizabeth Devaney | Patricia Littlefield |
| Barbara Marsh | Lewis Edward Pierce, Jr. |
| Jean Marion Rossman | Katherine Spencer |

College Course

| | |
|---------------------------|--------------------------|
| Harriett Parker Ellison | Dorothy Gascoigne |
| Jean Marshall | Lawrence Arthur Morrison |
| Raymond Foster Nelson | Ruth Smith Parker |
| Elizabeth Mary Shay | William Watson Stewart |
| Donald Martin Sullivan | Mary Darrah Sullivan |
| Virginia Temple | Laura Alvin Yuill |
| Eleanor Margaret Quigley | Annie Margaret Richards |
| Elizabeth Tyler Scott | Marion Amy Scott |
| Thomas M. St. Louis | Mabel Elizabeth Swain |
| Paul Carlton Swanson | George Lawrence Tebeau |
| Mary Margaret Weston | Gertrude Anna Wright |
| Gertrude Estella Yunghans | |

Practical Arts Course

| | |
|------------------------|-----------------------|
| Bernard Clinton Bailey | Irene Evelyn Doucette |
| James Francis Galvin | Myrtle Thorpe Harris |
| John Ernest Hurd | Clifford R. Kilgore |
| Leon Rich, Jr. | Abbie Anna Richardson |
| Donald Bragdon Sias | Annie Olive Smith |
| Phyllis Trevor | Howard Wesley Weaver |

Scientific Course

| | |
|------------------------|-------------------------|
| Harry R. Foster, Jr. | Flora Hadassah Harriman |
| Edward Converse Hodson | |

Secretarial Course

| | |
|--------------------------|--------------------|
| Dorothy Claire Parkhurst | Ruth Louise Pitman |
| Emily Loretta Redfield | |

Special Course

| | |
|---------------------------|----------------------------|
| Robert L. Lowell | Stacy Malcolm Merrill, Jr. |
| Eleanor C. Noonan | John Richman |
| Dorothy Esthelda Sullivan | |

Commercial Course

| | |
|-----------------------|------------------------|
| Muriel Eaton Bell | Doris Lillian Birchall |
| Ruth Libby Chesley | Dorothy Elinore Day |
| Virginia Douglas | Stella Helen Florino |
| Alice Marie Gormlie | Barbara Rogers Kerr |
| Doris Pauline Murphy | Hazel Eames Parker |
| Norma Ellsworth Perry | Ruth Stone |

Fine Arts Course

| | |
|----------------------|----------------------|
| Mildred Keith Davies | Clayton Eugene Downs |
| Roberta A. Hubbard | William M. Ingalls |
| Anna Marion Reck | |

Normal Course

| | |
|---------------------------|----------------------------|
| Rita Mary Ainsworth | James Lyman Belknap |
| James Hamilton Burgess | Richard Holmes Burhoe |
| Helen Stewart Byram | Dorothy Elizabeth Chisholm |
| Margaret Ann Cummings | Alden Robinson Eaton |
| Jeanne Louise Else | Francis Talbot Emery |
| Florence Emilia Englund | Fred Farnum, Jr. |
| Frank E. Hodges | Harriet Louise Howe |
| Florence Louise Marchetti | George Frederick Marr |
| Charles Bennett Mathieson | Charles Palmer Meikle |
| Edward Nelson Morand | Merton E. Pomfret |

REPORT OF THE PRINCIPAL OF THE JUNIOR HIGH SCHOOL, 1931

Mr. A. L. Safford,
 Superintendent of Schools,
 Reading, Massachusetts.
 My dear Mr. Safford:

I wish to discuss some matters pertaining to the Junior High School that seem to me especially worthy of mention at this time.

I am greatly pleased with the efforts of our teaching staff to improve themselves and their work through professional study. I find that, during the first half of this school year, two-thirds of the entire Junior High School Faculty are taking educational courses either to enrich their knowledge of subject matter or to improve their methods of instruction. Two of the remaining third attended summer school in 1931, as did three of those who are taking courses during the school

year. This is a very healthy condition. While granting that a pleasing, sympathetic personality which invites pupil confidence and emulation is the most important single asset that the teacher can bring to the class room, it will not suffice in itself.

A thorough background of training in the subject-field that enables the teacher to free herself from the narrow confines of a single text book is essential to a really good teacher. It is indispensable to some teachers, as for example, those engaged in the social-science field. Here the teacher cannot present facts in their true perspective, cannot aid pupils in arriving at satisfactory understandings, or in making adequate generalizations without a background of training that includes the basic principles of economics, sociology, and civics, as well as geography and history. To personality and command of subject matter should be added an understanding of good teaching principles and sound class-room procedure. Teaching pupils to memorize economically involves a teaching technique quite different from that suitable in teaching pupils to solve problems, to make generalizations, or to acquire desirable appreciations. Then again, the good teacher must recognize the problem of individual differences in ability to learn and to adapt her teaching technique so that neither the slow learner nor the rapid learner is unnecessarily handicapped. Through a process of trial and error, the observant teacher learns a good deal about these matters from experience, but experience, valuable as it unquestionably is, should be coupled with sound theory and a knowledge of proved school practice as found in the best educational books and more particularly in good schools of education. Teachers must know what is going on in the field of education, and be alert to adapt to class room use that which scientific research, judgment, and experience deem feasible. So I feel that the efforts of the teachers in the Junior High School to improve their professional preparations are worthy of commendation.

I think it can be clearly demonstrated that emphasis upon professional training is reflected in better teaching in the Junior High School, which, from the community's point of view, means a greater return on money invested.

Teachers are defining their teaching objectives more definitely and comprehensively, and then providing those class room activities that seem best adapted to the realization of those objectives. This is especially true in the Social Science classes where considerable progress is being made this year. In this department, especially well planned guide sheets have been placed in the hands of the pupil as a study aid. These guide sheets are consciously planned to assist the pupil in organizing learning into an integrated whole so that the pupil is left with insights or understandings that he can use in interpreting changing conditions in society rather than left with a

mass of isolated and unrelated facts.

I find some teachers making use of the pre-test before actually presenting a new piece of subject matter to discover the preparation of the class as a whole and as individuals to attack a new piece of work. This is more important than it at first appears. It has been said of an unusually successful teacher that she "never taught anything new without first preparing a hole to put it in". Every new bit of learning has its beginning in the past learnings or experience of the pupil. The ability of a pupil to grasp new material is dependent upon his possession of certain skills, concepts, appreciations, or understandings previously taught. The trained scientific teacher will take the time to analyze the new materials to be taught for those essential, dependent learnings and then to test her class for the purpose of discovering to what degree they are present. Good teachers have always used the principle of recall in presentation of new work, but often it has been hurriedly and unscientifically done. Teachers are too prone to justify this condition with the statement that "pupils are supposed to know those things."

I find too, that many teachers are using short quizzes at regular intervals not so much for the purpose of awarding "marks" as to discover weaknesses in their teaching and those things that need re-teaching. A sound class room formula is "to test, teach, re-test and re-teach" until desired results are obtained. More of our teachers are following that procedure.

A battery of achievement tests given at mid-years last year to the 7th and 8th grades showed that both grades had made more than a year's progress in spite of many individual shortcomings. Those individual weaknesses are dealt with in the regular class periods or in the remedial periods in so far as facilities permit. The program provides two remedial periods per week in the 7th and 8th grades during which special help can be given in the basic subjects,—Mathematics, English, Social Science—by the regular subject teachers. Standardized tests were given the ninth grade last year both at mid-years and at the end of the year. The mid-year tests were especially helpful in determining teaching emphasis during the second half year. The Principal of the Senior High School, Mr. Sussmann, reported in the fall that last year's 9th grade was better prepared than previous 9th grades. His statement was borne out by the fact that a comparatively large number of the class were found on the "honor list" at the end of the first quarter.

The physical education department has made a good deal of progress during the year in perfecting a clearly defined program of class instruction and actively supplemented by tournament play in the afternoon. The regular class work stresses game skills preparing

for tournament play which stresses team play. It is the school's objective to get every physically able boy and girl on one or more organized teams during the year that plays a regular schedule of three to five games. In the fall tournaments 282 girls were organized into 35 teams each playing a schedule of five games and 169 boys were organized into 14 teams each playing a schedule of four games. A more detailed statement of the physical education work may be found in the January 15, 1932 issue of the Reading Chronicle.

In closing this report I again wish to pay tribute to the teaching staff at the Junior High School. They have worked well together for common ends and have given unstintingly of their time and effort. I earnestly solicit for them the community's good will and co-operation.

Sincerely yours,

R. W. BLAISDELL

**REPORT OF THE PRINCIPAL OF THE HIGHLAND, CENTER,
AND UNION STREET SCHOOLS, 1931**

Mr. Adelbert L. Safford,
Superintendent of Schools,
Reading, Mass.

Dear Sir:

I hereby submit my annual report as Principal of the Union St., Center, and Highland Schools.

The organization of the Union St. School and the Center School is the same as last year. In September Miss Morgan from the Union St. School was transferred to the Highland School and Miss Cochrane from the Highland School was transferred to the Union St. School.

Owing to absence caused by whooping cough and measles and the immaturity of the pupils, twenty-five or thirty entering the first grade were not able to finish the minimum essentials of that grade the first year. However as the work is laid out in units, the pupils who have not finished the first grade requirements can go on with the next unit and not be obliged to repeat the whole year's work. Some will be able to finish the first grade work and complete the second grade work the second year, but the young immature pupils will need to stay two years in the second grade before they are able to do third grade work.

In spite of the large classes in some rooms at the Center School, the work is progressing well. The first and second grades are not overcrowded, but the third grade classes are too large so that the teachers are not able to give the individual help which the pupils of this grade need. This difficulty has been overcome partly by the assistance of cadet teachers from the Lowell Normal School. They are a great help, especially for remedial work with the retarded pupils.

Owing to a change in their course, there were no cadet teachers from Salem Normal School in the Center School as formerly, but several trained in the fifth and sixth grades in the Highland School.

In September the time allotments for the first six grades were given to the teachers and a course of study in citizenship and nature study and an activity program planned. For the activity work the Citizenship Readers are used in the first four grades. With these books the pupil not only learns to read but he has a chance for creative self-expression and by means of the activities and stories is given ideals of patriotism, truthfulness, and other traits of character which make for good citizenship. The fourth grades have formed a Good Citizen's Club.

The classes in the Highland School are large also and many pupils in the sixth grade needed remedial work so in January, Miss Florence Thackleberry was elected to have charge of the remedial classes. The results of this remedial work were very satisfactory. In September it was necessary to use part of the upper corridor for a class room so now Miss Thackleberry has charge of that and is assistant principal.

In September Miss Whittier was elected as teacher of music in the Highland School instead of the Junior High School. The Glee Club and orchestra, under her supervision, gave the operetta, "The Indian Princess," one evening last spring and also furnished the entertainment for the Thanksgiving assembly.

In April under the direction of Miss Mabel Brown, director of health, a demonstration of the health work was given. The routine health procedures, as the morning inspection, monthly weighing and measuring, school nurse visit, also clinic demonstrations were shown. This was followed by an address on Parent Responsibility in School Health Program by Dr. Luise Diez, Director of Child Hygiene, State Dept. of Health.

In connection with the leader's club and an outgrowth from it, a Junior Betterment Club was formed; the object of the club being to create a better school spirit. Each member pledges to work for the best interests of his home room and to be loyal to the school, by obeying the rules and helping other pupils to obey them.

Another means used to aid the teaching of good citizenship is the use of Egan's Monthly Service in Character Training. These pamphlets come each month and a different topic like "reliability" or "obedience" is studied each day during the month. This teaching is in the form of stories and is part of the morning exercises.

The fifth and sixth grade teachers have been taking a course with Prof. Wilson from Harvard on the Principles of Teaching. They are making, in unitary form, a course of study of the subjects they teach. The work sheets which go with the courses of study will probably be ready in September and then we shall be able to carry out the Morrison idea of teaching.

The work done by the classes for special instruction has been most satisfactory. At their exhibition in June many useful articles, made in the workshop and in the sewing class, were shown, as well as the regular school work. Tea and small cakes, which the pupils had made, were served by the pupils.

The Keystone Visual Method of teaching reading has recently been introduced in the primary room. The lessons are presented by the use of objects, stereograph, and lantern slides. The stereograph is first used in a conversational period, during which the pupil's attention is focused upon the words to be taught. A lantern slide of the same picture is then projected upon the blackboard and upon it are written the names of those objects that are to be taught. In this way the child's first recognition of the word is in direct association with the object itself.

The pupils are very enthusiastic and many of them who have been to school for several years without learning to read are making great progress. I hope next year many more pupils who are retarded on account of reading disabilities may have an opportunity to join this class.

In reviewing the work of the year, I feel that in all the schools, much progress has been made.

In closing this report, I wish to thank you, Mr. Safford, for your kindly assistance and the teachers for their loyal support.

Respectfully submitted,

GRACE WAKEFIELD

REPORT OF THE AGRICULTURAL DEPARTMENT

Mr. Rudolf Sussmann, Director,

Dear Sir :—

The following is a short report of the work of the Reading High School Agricultural Department for the past year :

The major subject for the older group (Seniors and Juniors) from January to June was Orcharding. The class was able to get a large amount of practical work in pruning and grafted 150 stubs in one orchard alone, besides doing routine work on several estates where we have cared for the fruit trees for several years.

The younger group majored in Poultry Keeping. One 20x20 house was built by the class and several successful projects were conducted. Harold Lutz reported a profit of \$598 on a flock of about three hundred layers.

Beginning in September the older group has studied dairying but because of the mild fall and open winter several of the boys have worked more than is usually possible. The younger group have made a study of vegetables and fertilizers, put a cement floor in a poultry house and are now at work on incubation brooding and poultry feeding, with garden planning to follow.

In the face of general unemployment and the difficulty of placing boys on summer jobs the total amount earned by the class for the year ending October 15, 1932 was \$6191.39, \$406.71 more than for the previous year. The total project hours worked was 14,677. Three boys were awarded diplomas October 15, at the end of the project year.

The boys took part in judging contests at Topsfield and Brockton winning second place in stock judging at Topsfield. H. A. Gibbons, Jr., ranking eleventh in a field of 80 at Amherst is slated for another contest there this spring.

The total enrollment in September 1930 was twenty-five. In September 1931 the enrollment was thirty-nine with thirty-two in the classes at the present time. The large classes this year make it difficult to get out on outside jobs or properly supervise such work as has been done in the past. We have not been able to properly prepare candidates for the various contests in judging fruit, vegetables, and stock; prize speaking and essay writing which are state wide contests participated in by most of the other agricultural schools and departments in Massachusetts.

For several years the agricultural students have had opportunity to do some automobile repair work in a local garage. While this is good as far as it goes it seems to me we should have a shop of our own

available at any time where repairs on any kind of farm machinery could be made, where the boys could build their own poultry equipment and where the rudiments of forging, welding and tool sharpening could be taught.

Then again we are without facilities for teaching plant propagation. We need a small greenhouse where actual work can be done. The money spent for automobile instruction in five years would build and equip both shop and plant house if a suitable site could be found. These two things are what the department needs most.

Respectfully submitted,

HERMON T. WHEELER, Instructor.

Eleventh Annual Report

OF THE

BOARD OF PUBLIC WORKS

For the Year Ended December 31

1931

To the Citizens of Reading :

The Board organized on March 13th, 1931 with Martin B. Hartshorn as Chairman and Frank M. Merrill as Secretary. On March 20th, Alexander Birnie was appointed Superintendent of the Board for the coming year.

Regular meetings have been held in the Municipal Building on Friday evening each week throughout the year; several special meetings being called when the Board deemed it necessary to the furtherance of the work of the several departments.

The policy adopted by the Board to do all work with Town labor was continued this year, with the exception of the erection of the building, and installing the machinery at the new Water Station.

The outstanding project completed this year was the erection of the new Pumping Station, wells, etc., located in Hundred Acre Meadow which the Board believes will supply the Town with a good quality and generous quantity of water for many years, at a construction cost, well below the estimates of two engineering firms and the appropriation requested for this purpose. The operating cost of this station, as reported herewith by our Superintendent, is under the estimate of Weston & Sampson's treatise on this subject.

It is the opinion of the Board that, as conditions warrant, more permanent highways, should be constructed each year. Although the original investment is greater, the maintenance expense over a period of years more than offsets this first cost. The completion of Salem St. and the widening and reconstruction of High St. from Middlesex Avenue to Lowell St. has met with public approval. The Board has investigated thoroughly the question of rebuilding Reading Square, has had several reports from the Engineering Dept. of the State of Mass., and as a result of their study have inserted an article in the warrant they believe will solve this problem in a satisfactory manner.

As indicated in detail in the report of our Superintendent, a very substantial amount of granolithic sidewalk has been constructed during the year 1931. The Board has on file sufficient applications to duplicate the 1931 program. To accomplish more in this field an increase in this budget is necessary. The Town pays half of the cost of granolithic sidewalks, the other half of the expense is assessed to the abutters. The amounts paid by them on such assessments, however, go into the Excess and Deficiency Fund, the general reserve fund of the Town, and do not lower the tax rate for the year the sidewalk is built, but does automatically decrease the amount of our appropriation, which in turn cuts down our ability to render the citizens 100 per cent of our appropriation for this work.

The reduction of sewer rentals, as published in the Reading Chronicle, became effective July 1, 1931. This change of prices has so far proven very successful as a greater number of connections have been made as a result. The reduction was investigated by the consulting engineers, Weston & Sampson, who not only studied our local conditions but also included similar systems comparable to the Town of Reading, throughout the State.

The tennis court built at Birch Meadow in 1930 was so well patronized the Board deemed it advisable to build an additional court there. They also installed two courts at Memorial Park to care for the children in that section of the Town, and these courts when completed with nets, back stops, etc., will prove a substantial feature to this playground.

A portion of the Common and a large area of the Ballfield was plowed, harrowed and reseeded. Portable bleachers were installed at the Ballfield to replace the wooden stands that collapsed last year.

Hearings have been granted to the N. E. Tel. & Tel. Co. of Mass., and Municipal Light Dept. upon petitions filed for the location, removal and relocation of poles, the construction of conduits and manholes.

The Board has granted permits to the M. & M. Gas Light Co. to install, construct and maintain gas mains in the public ways of the Town where public convenience required.

Conferences have been held with the Planning Board and the Finance Committee relative to Reading Square reconstruction program, and with the Special Birch Meadow Committee of which Mr. H. Raymond Johnson is Chairman.

One of the greatest problems encountered this year was the unemployment situation. This condition has called for considerable thought and effort, as many of the applicants were not fitted for the type of work we could provide. However, very little dissatisfaction has been apparent as the Board did not officially receive any complaints. We wish to commend our Superintendent for his successful methods in handling this situation.

The Board has given careful study and consideration to all matters coming before it for action, and has endeavored to promote the best interests and welfare of the Town. Criticisms of a constructive nature designed to improve our working conditions are invited and will receive from us our heartiest co operation.

MARTIN B. HARTSHORN, Chairman
FRANK M. MERRILL, Secretary
HAROLD W. PUTNAM
Wm. T. FAIRCLOUGH
ROBERT E. FOWLE

Board of Public Works

SUPERINTENDENT'S REPORT

To the Board of Public Works:

Gentlemen:

As required by Section 4, Chapter 118, of an Act authorizing the Town of Reading to establish a Board of Public Works, I respectfully submit for your consideration the eleventh annual report of the Department of Public Works (Water, Highway, Sewer and Park) including a financial report of each department, and a chronicle of the principal work performed with recommendations for the coming year.

WATER DEPARTMENT

Maintenance Account:

Receipts:

| | |
|--------------------------------|--------------|
| Cash Balance 1930 | \$ 1,290.26 |
| Meter Rates | 47,540.24 |
| Service Pipe Maint. | 339.03 |
| Service Pipe Const. | 1,550.59 |
| Hydrant Rental & Repairs | 8,095.23 |
| Drinking Fountains | 106.00 |
| Misc. Receipts | 420.95 |
| Total | \$ 59,342.30 |

Expenditures:

1. Office Maintenance:

| | |
|---|-------------|
| Pay Roll | \$ 1,007.00 |
| Supplies, Printing, Insurance etc. | 2,588.94 |

| | |
|-------------|-------------|
| Total | \$ 3,595.94 |
|-------------|-------------|

2. Pumping Station Costs:

| | |
|------------------------------|-------------|
| Pay Roll | \$ 4,836.15 |
| General Repairs | 374.90 |
| Electric Power & Light | 2,970.88 |
| Supplies & Misc. | 2,909.63 |

| | |
|-------------|--------------|
| Total | \$ 11,091.56 |
|-------------|--------------|

3. Filter Costs:

| | |
|----------------------|-------------|
| Pay Roll | \$ 2,358.50 |
| Supplies, Misc. | 1,256.61 |

| | |
|-------------|-------------|
| Total | \$ 3,615.11 |
|-------------|-------------|

| | | |
|---------------------------------------|-------------|-------------|
| 4. Maintenance of Meters: | | |
| Pay Roll | \$ 1,814.19 | |
| Supplies | 326.59 | |
| | <hr/> | |
| Total | | \$ 2,140.78 |
| 5. Maintenance of Service Pipes: | | |
| Pay Roll | \$ 2,131.57 | |
| Supplies & Tools | 231.66 | |
| | <hr/> | |
| Total | | \$ 2,363.23 |
| 6. Maintenance of Main Pipes: | | |
| Pay Roll | \$ 2,526.22 | |
| Supplies, Tools & Misc. | 251.19 | |
| | <hr/> | |
| Total | | \$ 2,777.41 |
| 7. Maturing Bonds paid from Receipts: | | |
| ..... | \$ 8,000.00 | |
| | <hr/> | |
| Total | | \$ 8,000.00 |
| 8. Bond Interest paid from Receipts: | | |
| ..... | \$ 3,792.50 | |
| | <hr/> | |
| Total | | \$ 3,792.50 |
| 9. Automobile & Truck Maintenance: | | |
| Repairs & Supplies | \$ 1,248.03 | |
| | <hr/> | |
| Total | | \$ 1,248.03 |
| 10. Shop Maintenance: | | |
| Pay Roll | \$ | |
| Repairs & Supplies | 91.50 | |
| | <hr/> | |
| Total | | \$ 91.50 |
| 11. Main Pipe Construction: | | |
| Pay Roll | \$ 2,998.84 | |
| Fittings and Misc. Supplies | 3,589.43 | |
| | <hr/> | |
| Total | | \$ 6,588.27 |
| 12. Service Pipe Construction: | | |
| Pay Roll | \$ 1,246.16 | |
| Pipe, Tools and Misc. Supplies | 2,276.18 | |
| | <hr/> | |
| Total | | \$ 3,522.34 |

| | | |
|---------------------------------------|---------------|--------------|
| 13. Meter Construction: | | |
| Meters | \$ 973.92 | |
| Supplies | 34.44 | |
| | <hr/> | |
| Total | | \$ 1,008.36 |
| 14. Hydrants and Drinking Fountains: | | |
| Pay Roll | \$ 633.54 | |
| New Hydrants | 730.74 | |
| Fittings and Supplies | 45.50 | |
| | <hr/> | |
| Total | \$ 1,409.78 | |
| | <hr/> | |
| Grand Total Expenditures | | \$ 51,244.81 |
| | | <hr/> |
| Balance Dec. 31, 1931 | | \$ 8,097.49 |
| | <hr/> | |
| Standpipe Account | | |
| Balance Forward from 1930 | | \$ 5,375.50 |
| Expended 1931: | | |
| Pay Roll | \$ 49.94 | |
| Bal. on Contracts and Misc. Sup. | 5,324.83 | |
| | <hr/> | |
| Total | | \$ 5,374.77 |
| | <hr/> | |
| Balance Unexpended | | \$.73 |
| New Water Supply: | | |
| Bond Issue | | \$ 34,000.00 |
| | | 16,000.00 |
| | | <hr/> |
| Total | | \$ 50,000.00 |
| Credit | | 43.45 |
| | | <hr/> |
| | | \$ 50,043.45 |
| Expended: | | |
| Pay Roll | \$ \$9,085.40 | |
| Contractors | 11,987.10 | |
| Engineer | 4,500.00 | |
| Plumbing Equipment | 7,898.00 | |
| Heating, Plumbing, Wiring | 1,043.22 | |
| Pipe, Supplies, Misc. | 11,293.35 | |
| | <hr/> | |
| Total Expenditures | | 45,807.07 |
| | | <hr/> |
| Balance Unexpended | | \$ 4,236.38 |
| Cost of Plan, Dec. 31, 1930 | | \$551,139.46 |

Expended 1931:

| | | |
|---------------------------------------|-------------|--------------|
| Main Extension, Maintenance Acct. . . | \$ 6,588.27 | |
| Meters | 1,008.36 | |
| New Water Supply | 45,807.07 | |
| Bal. Standpipe Acct. | 5,374.77 | |
| Total | | \$ 58,778.47 |

| | |
|--|---------------|
| Total Cost of Plant, Dec. 31, 1931 | \$ 609,917.93 |
|--|---------------|

Registration Report

| | | |
|--|--------------|--------------|
| Amt. of bills (metered water) rendered in 1931 | | \$ 43,605.99 |
| Amount collected and paid Treasurer | \$ 47,361.44 | |
| Amount uncollected | 848.34 | |
| Amount abated | 396.21 | |
| | | |
| | \$ 48,605.99 | \$ 43,605.99 |

| | | |
|---|-----------|-----------|
| Amount of bills (metered water) of previous years uncollected | | \$ 210.65 |
| Amount collected and paid Treasurer | \$ 178.80 | |
| Amount uncollected | .00 | |
| Amount abated | 31.85 | |
| | | |
| | \$ 210.65 | \$ 210.65 |

| | | |
|--|-------------|-------------|
| Amount of Service Pipe Construction bills rendered in 1931 | | \$ 1,506.57 |
| Amount of bills of previous years uncollected.. | | 368.92 |
| Amount collected and paid Treasurer | \$ 1,550.59 | |
| Amount uncollected | 289.13 | |
| Amount abated | 35.77 | |
| | | |
| | \$ 1,875.49 | \$ 1,875.49 |

| | | |
|---|-----------|-----------|
| Amount of Service Pipe Maintenance bills rendered in 1931 | | \$ 373.36 |
| Amount of bills of previous years uncollected .. | | 8.36 |
| Amount collected and Paid Treasurer | \$ 339.03 | |
| Amount uncollected | 42.69 | |
| Amount abated | .00 | |
| | | |
| | \$ 381.72 | \$ 381.72 |

| | | | |
|--|-------|-------|----------|
| Amount of Main Pipe Maintenance Bills rendered in 1931 | | \$ | 38.86 |
| Amount of bills of previous years uncollected | | | 00.00 |
| Amount collected and paid Treasurer | \$ | 38.86 | |
| Amount uncollected | | 00.00 | |
| Amount abated | | 00.00 | |
| | <hr/> | | |
| | \$ | 38.86 | \$ 38.86 |
| Amount of Meter Maintenance bills rendered in 1931 | | | \$ 33.88 |
| Amount collected and paid Treasurer | \$ | 31.66 | |
| Amount uncollected | | 2.22 | |
| Amount abated | | .00 | |
| | <hr/> | | |
| | \$ | 33.88 | \$ 33.88 |
| Amount of Hydrant Maint. bills denreded in 1931 | | | \$ 80.23 |
| Amount collected and paid Treasurer | \$ | 80.23 | |
| Amount uncollected | | .00 | |
| Amounted abated | | .00 | |
| | <hr/> | | |
| | \$ | 80.23 | \$ 80.23 |

RAINFALL

The average rainfall for Massachusetts as deduced by the State Department of Health from long continued observation in various parts of the State is 44.54 inches.

As may be seen by a table in this report showing the amount of rainfall for the years 1900 to 1931 inclusive, the average rainfall at the Reading Pumping Station is 40.31 inches. The rainfall this past year was a deficiency of 3.29 inches compared with the State observation and an excess of 0.94 inches from our Pumping Station observations.

There was an excess of rainfall in the months of March, May, June, July, August and December of 6.40 inches, and a deficiency in the other months of 5.46 inches, compared each month with an average rainfall between the years 1900-1931 inclusive.

The elevation of the Reading Pumping Station is approximately eighty feet above the sea level. The greatest rainfall in any one month was in June, with a fall of 6.47 inches; in any one day, Tuesday, June 9, with a fall of 2.60 inches.

RAINFALL AT PUMPING STATION, 1931

| Month | Normal Rainfall (Inches) | Rainfall in 1931 (Inches) | Excess or Deficiency in 1931 (Inches) |
|-----------|--------------------------------|---------------------------------|--|
| January | 3.27 | 3.27 | 0.00 |
| February | 3.40 | 2.72 | -0.68 |
| March | 3.56 | 4.94 | +1.38 |
| April | 4.04 | 3.07 | -0.97 |
| May | 3.04 | 3.53 | +0.49 |
| June | 3.22 | 6.47 | +3.25 |
| July | 3.46 | 3.76 | +0.30 |
| August | 3.36 | 4.11 | +0.75 |
| September | 3.37 | 1.97 | -1.40 |
| October | 2.85 | 2.43 | -0.42 |
| November | 3.25 | 1.26 | -1.99 |
| December | 3.49 | 3.72 | +0.23 |
| Totals | 40.31 | 41.25 | +0.94 |

YEARLY RECORD OF PUMPING STATION FROM JANUARY 1, 1931,
TO JANUARY 1, 1932

| Month | No. Days | Hrs. | Min. | Gallons Pumped | Total Head | Pounds Coal | Gals. to Lbs. Coal | Rainfall |
|-----------|-------------|------|------|-------------------|---------------|----------------|-----------------------|----------|
| January | 31 | 371 | 45 | 10,856,574 | 218 | 59,418 | 183 | 3.27 |
| February | 28 | 336 | 30 | 9,859,442 | 218 | 55,741 | 177 | 2.72 |
| March | 31 | 365 | 30 | 11,049,731 | 218 | 60,459 | 183 | 4.94 |
| April | 30 | 378 | 30 | 12,076,093 | 218 | 59,873 | 202 | 3.07 |
| May | 31 | 438 | 45 | 13,988,214 | 218 | 71,127 | 195 | 3.53 |
| June | 30 | 430 | 30 | 13,732,514 | 218 | 70,289 | 195 | 6.47 |
| July | 31 | 487 | 30 | 14,266,548 | 218 | 69,928 | 204 | 3.76 |
| August | 31 | 502 | 30 | 14,497,866 | 218 | 67,862 | 208 | 4.11 |
| September | 30 | 476 | 45 | 14,631,870 | 218 | 69,456 | 211 | 1.97 |
| October | 31 | 462 | 15 | 14,000,302 | 218 | 69,630 | 201 | 2.45 |
| November | 30 | 380 | 30 | 11,718,712 | 218 | 57,937 | 202 | 1.26 |
| December | 12 | 67 | 20 | 4,246,058 | 218 | 17,723 | 239 | 3.72 |
| TOTALS | 346 | 4696 | 20 | 144,923,924 | 218 | 731,443 | 198 | 41.25 |

The New Pumping Station at Hundred Acre Meadow began pumping into the town distribution system December 7, 1931. From December 7, until December 31, inclusive, 8,581,600 gallons of water were pumped.

After forty years of continuous service commencing February 22, 1891, the old pumping station on Mill St. was stopped Sunday, December 13, 1931. This station will not be dismantled but will be held ready as an emergency unit to relay the new station should occasion arise.

TABLE SHOWING THE AMOUNT OF RAIN AND MELTED SNOW
FOR YEAR ENDING DECEMBER 31, 1931

| Day of Month | January | February | March | April | May | June | July | August | September | October | November | December |
|-----------------------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|---------|----------|----------|
| 1 | .... | .04 | .... | .41 | .... | .01 | .... | .... | .... | .... | .... | .... |
| 2 | .... | T | .... | .... | .06 | .... | T | .06 | .33 | .... | .... | .... |
| 3 | .... | .... | .16 | .22 | .... | T | T | .24 | .08 | .... | .03 | .... |
| 4 | .... | .... | .51 | .... | .... | .... | .04 | .... | .... | .... | .... | .98 |
| 5 | 1.05 | .... | .... | .... | .... | .26 | .... | .... | .... | .... | .... | .... |
| 6 | .01 | .... | T | .02 | .... | .... | 1.41 | .... | T | T | .... | .... |
| 7 | .... | .04 | .... | .83 | T | .10 | .24 | .... | .... | .02 | .... | .... |
| 8 | .... | .25 | 2.16 | .... | .85 | .46 | .03 | .... | .... | T | .... | .... |
| 9 | .... | .55 | .... | .... | .... | 2.60 | .27 | .... | .... | .... | .... | .52 |
| 10 | .... | .... | .02 | T | .40 | .65 | .40 | .04 | .... | .... | .... | .... |
| 11 | .... | .... | T | .02 | .01 | .07 | T | .50 | .... | .... | .... | .18 |
| 12 | .75 | .... | T | .... | .23 | T | .... | 1.08 | .... | .... | .01 | .... |
| 13 | .... | .12 | .... | .... | .34 | .... | .25 | .14 | .... | .... | .... | .50 |
| 14 | .... | .10 | .... | .... | .42 | .... | .80 | .01 | .... | .45 | .... | .28 |
| 15 | .... | .... | .... | .... | .09 | .90 | .07 | .14 | 1.12 | .43 | .68 | .... |
| 16 | .... | .... | .03 | .... | T | .77 | .... | .... | T | .66 | .02 | .... |
| 17 | .... | .42 | T | T | .... | .... | .... | .05 | .06 | .... | T | .... |
| 18 | .... | .76 | .... | .... | .... | .... | .... | .... | .... | .... | .01 | .... |
| 19 | .... | .39 | .... | .... | .... | .... | .... | .06 | T | .... | .09 | .03 |
| 20 | T | .03 | .... | .... | .... | .... | .... | .... | .34 | .... | .03 | .04 |
| 21 | .... | .... | .... | .... | .08 | .... | .15 | .... | .... | .... | T | .02 |
| 22 | .... | .02 | .... | .... | .04 | .... | .... | .... | T | .... | T | .61 |
| 23 | .... | .... | .... | .08 | .24 | .16 | .... | .... | .... | .... | .... | .02 |
| 24 | .01 | .... | T | .... | T | .... | .... | .02 | .... | .05 | .... | .53 |
| 25 | .... | .... | .60 | .06 | .07 | .... | .... | .... | .01 | .13 | .... | .01 |
| 26 | .... | .... | .05 | 1.43 | .... | .46 | .... | .15 | .03 | .... | .... | .... |
| 27 | .... | .... | .... | .... | .... | .03 | .... | 1.51 | T | T | T | .... |
| 28 | .... | .... | .68 | .... | .... | .... | .... | .07 | .... | .19 | .02 | .... |
| 29 | .... | .... | .73 | T | .... | .... | .10 | T | .... | .49 | .... | .... |
| 30 | .51 | .... | .... | .... | .... | .... | .... | .04 | .... | .01 | .37 | .... |
| 31 | .01 | .... | .... | .... | .70 | .... | .... | .... | .... | .... | .... | .... |
| TOTALS..... | 3.27 | 2.72 | 4.94 | 3.07 | 3.53 | 6.47 | 3.76 | 4.11 | 1.97 | 2.43 | 1.26 | 3.72 |
| TOTAL TO DATE..... | 3.27 | 5.99 | 10.93 | 14.00 | 17.53 | 24.00 | 27.76 | 31.87 | 33.84 | 36.27 | 37.53 | 41.25 |

AMOUNT OF RAINFALL FOR YEARS 1900 TO 1931

| Year | January | February | March | April | May | June | July | August | September | October | November | December | Total |
|-------------|---------|----------|-------|-------|------|------|------|--------|-----------|---------|----------|----------|-------|
| 1900 | 5.32 | 8.69 | 5.03 | 2.15 | 4.60 | 3.13 | 1.90 | 3.17 | 4.15 | 3.31 | 5.05 | 2.44 | 48.94 |
| 1901 | 1.33 | 1.08 | 5.88 | 9.59 | 7.21 | 1.74 | 4.65 | 2.66 | 3.59 | 2.76 | 3.06 | 8.10 | 51.65 |
| 1902 | 1.80 | 6.11 | 4.69 | 6.22 | 1.69 | 1.98 | 3.02 | 3.75 | 4.01 | 4.91 | 0.99 | 5.60 | 44.77 |
| 1903 | 3.84 | 3.16 | 6.38 | 4.95 | 0.48 | 8.91 | 3.40 | 3.42 | 2.29 | 3.69 | 1.33 | 2.59 | 44.44 |
| 1904 | 4.42 | 2.21 | 2.21 | 9.90 | 3.56 | 2.56 | 1.88 | 4.26 | 5.16 | 2.02 | 1.80 | 2.25 | 42.23 |
| 1905 | 5.44 | 1.47 | 2.92 | 2.59 | 1.39 | 6.11 | 1.19 | 3.30 | 7.87 | 1.20 | 2.22 | 3.72 | 39.42 |
| 1906 | 2.60 | 2.53 | 6.48 | 2.84 | 5.14 | 2.63 | 5.88 | 4.18 | 1.36 | 2.38 | 3.31 | 3.08 | 42.41 |
| 1907 | 3.97 | 2.10 | 2.40 | 3.21 | 2.89 | 3.80 | 3.58 | 1.33 | 7.90 | 3.36 | 6.83 | 3.60 | 44.97 |
| 1908 | 3.07 | 4.28 | 2.72 | 1.71 | 4.00 | 1.58 | 3.09 | 4.07 | 0.86 | 3.56 | 1.10 | 2.66 | 32.70 |
| 1909 | 4.17 | 5.33 | 3.57 | 3.95 | 1.97 | 2.14 | 3.59 | 2.75 | 3.74 | 1.23 | 4.06 | 3.60 | 40.10 |
| 1910 | 4.54 | 3.14 | 1.58 | 2.32 | 1.19 | 4.36 | 1.98 | 2.61 | 2.45 | 1.48 | 4.30 | 1.92 | 31.87 |
| 1911 | 2.25 | 2.94 | 3.12 | 1.89 | 0.67 | 3.43 | 4.79 | 3.80 | 2.94 | 2.91 | 4.14 | 3.57 | 36.45 |
| 1912 | 2.68 | 2.42 | 5.04 | 4.05 | 5.73 | 0.29 | 6.44 | 2.02 | 3.02 | 1.45 | 3.10 | 4.80 | 41.04 |
| 1913 | 2.48 | 2.64 | 4.51 | 3.76 | 3.45 | 0.93 | 1.68 | 3.48 | 3.66 | 7.56 | 2.13 | 3.24 | 39.52 |
| 1914 | 3.34 | 3.65 | 4.09 | 6.32 | 2.76 | 1.44 | 2.34 | 2.78 | 0.23 | 1.51 | 2.92 | 3.69 | 35.07 |
| 1915 | 5.52 | 3.54 | 0.00 | 2.72 | 1.68 | 4.60 | 8.76 | 6.66 | 0.70 | 2.80 | 2.93 | 5.47 | 45.38 |
| 1916 | 1.22 | 5.37 | 3.37 | 5.14 | 4.59 | 5.86 | 3.13 | 2.30 | 3.11 | 1.01 | 1.94 | 2.91 | 39.95 |
| 1917 | 2.92 | 2.41 | 4.18 | 2.90 | 4.00 | 4.78 | 1.19 | 3.70 | 1.46 | 5.75 | 1.39 | 2.65 | 37.33 |
| 1918 | 3.08 | 3.02 | 2.02 | 4.10 | 0.85 | 3.04 | 2.99 | 2.81 | 8.37 | 1.02 | 2.24 | 2.48 | 36.02 |
| 1919 | 3.24 | 3.61 | 4.01 | 2.46 | 5.44 | 0.88 | 3.22 | 3.83 | 5.65 | 2.63 | 6.20 | 1.53 | 42.70 |
| 1920 | 2.05 | 6.46 | 4.21 | 5.75 | 3.27 | 5.24 | 1.94 | 2.02 | 4.27 | 1.16 | 4.67 | 4.82 | 46.56 |
| 1921 | 2.79 | 3.43 | 2.43 | 5.48 | 1.86 | 4.02 | 9.79 | 1.96 | 1.74 | 1.57 | 6.50 | 2.28 | 43.15 |
| 1922 | 1.77 | 2.72 | 4.27 | 1.37 | 5.08 | 1.27 | 4.88 | 3.29 | 3.68 | 2.73 | 1.06 | 3.12 | 45.24 |
| 1923 | 6.95 | 1.67 | 2.60 | 5.17 | 1.56 | 2.79 | 1.98 | 3.17 | 0.82 | 3.63 | 4.13 | 4.83 | 39.30 |
| 1924 | 3.77 | 2.55 | 1.71 | 4.25 | 3.10 | 2.53 | 2.70 | 4.80 | 7.95 | 0.05 | 2.56 | 1.52 | 37.49 |
| 1925 | 4.28 | 2.14 | 7.66 | 2.95 | 2.05 | 5.62 | 3.13 | 2.37 | 2.16 | 4.66 | 3.94 | 5.53 | 46.49 |
| 1926 | 2.53 | 4.41 | 2.83 | 2.24 | 2.19 | 1.80 | 2.08 | 3.30 | 1.32 | 3.95 | 3.89 | 3.08 | 33.62 |
| 1927 | 2.32 | 3.18 | 1.30 | 1.43 | 2.19 | 2.27 | 3.04 | 5.28 | 2.68 | 4.10 | 4.18 | 4.77 | 33.74 |
| 1928 | 2.17 | 3.37 | 1.45 | 5.13 | 2.77 | 6.63 | 3.65 | 3.84 | 4.18 | 2.96 | 2.28 | 2.57 | 41.00 |
| 1929 | 3.14 | 3.76 | 3.49 | 6.81 | 3.50 | 1.21 | 1.19 | 4.53 | 2.41 | 2.49 | 2.87 | 3.63 | 39.03 |
| 1930 | 2.48 | 2.05 | 3.29 | 1.90 | 3.38 | 2.19 | 4.07 | 2.77 | 0.79 | 4.45 | 3.68 | 2.20 | 33.25 |
| 1931 | 3.27 | 2.72 | 4.94 | 3.07 | 3.53 | 6.47 | 3.76 | 4.11 | 1.97 | 2.43 | 1.26 | 3.72 | 41.25 |
| Average ... | 3.27 | 3.38 | 3.73 | 4.11 | 3.17 | 3.52 | 3.46 | 3.39 | 3.33 | 2.84 | 3.19 | 3.50 | 40.31 |

SUMMARY OF STATISTICS

For Year Ending December 31, 1931

Reading Water Department

Reading, Massachusetts, Middlesex County

General Statistics

Population by census of 1930: 9747.

Date of construction: 1890, 1891, and 1931.

By whom owned: Town of Reading.

Sources of supply: Filter gallery and artesian wells.

Mode of supply: (Whether gravity or pumping) : Pumping.

Pumping Statistics

Builders of Pumping Machinery: Sullivan Mch. Co., Geo. F. Blake Mfg. Co., and Platt Iron Works.

Description of fuel used:

Kind: Coal.

Brand of Coal: New River.

Average price of coal per net ton delivered: \$6.65.

Percentage of Ash:

Wood, price per cord:

Coal consumed for the year: 731,443 pounds.

Total pumpage for year, with allowance for slip: 144,923,924 gallons

Average static head against which pumps work: 218

Average dynamic head against which pumps work: 246.

Number of gallons pumped per pound of equivalent coal: 198.

144,923,924 gals. pumped \times 8.34 (lbs.) \times 100 dyn. hd. (246)Duty equals:

731,443 Total fuel consumed

Equals: 40,650,019.19 including heating.

Cost of pumping figured on Pumping Station expenses including filtration, viz:

Per million gallons pumped: 101.48.

Per million gallons raised one foot (Dynamic) .41.

DISPOSITION OF BALANCE—Carried to New Account

| | |
|---------------------------------|--------------|
| Net cost of works to date | \$609,917.93 |
| Bonded debt to date | 117,000.00 |

Cost of supplying water per million gallons figured on total maintenance of Pumping Station and filters: \$101.48.

Total cost of supplying water, per million gallons figured on total maintenance plus interest on bonds: \$211.95.

Statistics Relating to Distribution Mains

Kind of Pipe: Cast Iron.

Sizes: 4 inches to 12 inches.

Extended: 4,143.7' of 12"—2,783' of 6"—110' of 1 1-4."

Total in use at present: 40.35 miles (6" to 12")

Cost of maintenance per mile: \$68.83.

Number of hydrants in use (public and private): 260.

Number of stop gates added during the year: 29.

Number of stop gates now in use: 608.

Number of stop gates smaller than 4": 131.

Number of blow-offs: 15.

Suction Lines 110' of 16" equal 110 ft.

Line A 300' of 12"—320' of 10"—275' of 8" equals 895 ft.

Line B 270' of 12"—320' of 10"—300' of 8" equals 890 ft.

Total: 1895 ft.

Gates on Suction Line.

Line A—1—12"—17—2 1-2".

Line B—1—12"—18—2 1-2".

Services:

Kind of pipe: Cast iron, galvanized iron, lead and cement lines and copper tubing.

Sizes: 3-4" to 6".

Extended: 3,466.60 feet.

Total in use: 36.55 miles.

Number of active service taps added during year: 60.00.

Number of service taps in use: 2513.

Average length of services: 1931, 57.78 feet.

Average cost of service to owners, 1931: 24.45.

Number of meters added: 105.

Number of meters junked: 21.

Number of meters in use: 2681.

WATER BONDS AND INTEREST

There were \$8,000.00 in bonds payable in 1931.

The interest on serial bonds for the year 1931 amounted to \$3,792.50

There are \$16,000.00 in bonds and \$4,202.50 interest due in 1932 as follows:

| | Payable | Interest | Bonds |
|-------------------------------|----------|------------|-------------|
| Water Bonds of Sept. 15, 1927 | 3/15/32 | \$220.00 | |
| Water Bonds of April 15, 1931 | 4/15/32 | 595.00 | \$4,000.00 |
| Water Bonds of April 15, 1932 | 4/15/32 | 280.00 | 4,000.00 |
| Water Bonds of May 1, 1925 | 5/ 1/32 | 160.00 | 2,000.00 |
| Water Bonds of June 1, 1907 | 6/ 1/32 | 100.00 | 1,000.00 |
| Water Bonds of June 1, 1917 | 6/ 1/32 | 247.50 | 1,000.00 |
| Water Bonds of June 1, 1930 | 6/ 1/32 | 640.00 | 3,000.00 |
| Water Bonds of Sept. 15, 1927 | 9/15/32 | 220.00 | 1,000.00 |
| Water Bonds of April 15, 1931 | 10/15/32 | 525.00 | |
| Water Bonds of April 15, 1931 | 10/15/32 | 210.00 | |
| Water Bonds of May 1, 1925 | 11/ 1/32 | 120.00 | |
| Water Bonds of June 1, 1907 | 12/ 1/32 | 80.00 | |
| Water Bonds of June 1, 1917 | 12/ 1/32 | 225.00 | |
| Water Bonds of June 1, 1930 | 12/ 1/32 | 580.00 | |
| | Totals | \$4,202.50 | \$16,000.00 |

KIND AND SIZES OF METERS IN USE JANUARY 1, 1932

| MAKE | SIZES | | | | | | | | | TOTALS |
|----------------|-------|------|----|--------|--------|----|----|----|----|--------|
| | 5/8" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | 3" | 4" | 8" | |
| Nash..... | 1184 | 13 | 11 | 1 | 3 | 3 | .. | .. | .. | 1215 |
| Hersey..... | 527 | 11 | 24 | 6 | 9 | 6 | 1 | 1 | 1 | 586 |
| Empire..... | 257 | 1 | 2 | .. | .. | .. | 2 | .. | .. | 262 |
| Gamon..... | 183 | .. | 2 | .. | .. | .. | .. | .. | .. | 185 |
| Trident..... | 127 | .. | .. | .. | .. | .. | .. | .. | .. | 127 |
| Crown..... | 74 | 2 | 2 | .. | 3 | 9 | .. | .. | .. | 90 |
| Union..... | 50 | .. | 1 | .. | 1 | .. | .. | .. | .. | 52 |
| Lambert..... | 49 | .. | 2 | .. | .. | .. | .. | .. | .. | 51 |
| Worthington... | 35 | .. | .. | .. | .. | 1 | .. | .. | .. | 36 |
| Pittsburg..... | 53 | .. | .. | .. | .. | .. | .. | .. | .. | 53 |
| Keystone..... | 1 | .. | .. | 8 | .. | .. | .. | .. | .. | 9 |
| Federal..... | 8 | .. | .. | .. | .. | .. | .. | .. | .. | 8 |
| Thompson..... | 4 | .. | 1 | .. | .. | .. | .. | .. | .. | 5 |
| Columbia..... | 2 | .. | .. | .. | .. | .. | .. | .. | .. | 2 |
| TOTALS..... | 2554 | 27 | 45 | 15 | 16 | 19 | 3 | 1 | 1 | 2681 |

WATER DEPARTMENT

The new State Highway on North Main Street caused the Water Department much extra work and expense. As this highway cannot be excavated, except in an emergency, for a period of years, a careful survey of possible future land developments adjoining this street was made, with the result that thirteen six inch taps were made and six inch pipe installed, totaling 375 feet, were laid to the street line at points where new roads might be built, and five three-quarter inch taps made and three-quarter inch pipe, totaling 102 feet was laid to the street line, as uncompleted house services.

The new road being much wider than the old road, house service boxes which before had been in the sidewalk were now found to come on the edge or in the paved surface of the road, therefore it was necessary to set back these boxes. In all, twenty-eight were set back, averaging four feet each. Many of these services were installed in 1890 and 1891 and are in perfect condition. The twelve inch main was examined carefully and found to show practically no signs of corrosion. Owing to the change of grade many service boxes had to be raised from one to four feet, while in other instances the road-bed was excavated to such a depth that the service pipe itself was bared, necessitating the lowering of the entire service. Five and one-quarter inch services were made at the owners' request to relay their old three-quarter inch services.

The annual inspection of hydrants proved them to be in good mechanical condition, even though in certain localities they had been used much more than the average. Owing to the construction of the new State Highway on North Main st. the hydrants in that section were

in constant use for a period of eight months. The general hydrant maintenance work has been completed and hydrants raised to meet new street grades on High, Salem, Eaton, and Main Streets. Ten new hydrants have been set, viz; one on Van Norden Rd. north side east of Franklin, one on Grove St. north of Franklin, one north of entrance to Town Forest, one opposite road to new pumping station, one at the new station, one on High south of Lowell, one on north side of Pinevale Road, one on Smith Ave. between No. 8 and No. 10, one on Prescott St. west of No. 97, and one on Mill St. south of Perry's Lane. The hydrant on South Main St. in front of the Municipal Light office was moved to facilitate the widening of South Main St., the one at Pratt, corner of Fairview, was moved across the street to a safer location, on High, opposite Vine, one was moved back to facilitate the widening of High St., the one at North Main, corner Forest, was moved eighteen feet north to permit the rounding of the street corner. On North Main Street it was necessary to raise, and in some instances move back, eleven hydrants.

Four hydrants have been broken off by motor vehicles at the following places: One at corner of Minot St. and Center Ave., one in front of 18 Green St., one on Main Street, corner Federal, and one on Main St. opposite Charles St. and in each instance the town has been reimbursed by the one who caused the damage.

Sixty-four new house service taps were made during the year totaling three thousand, seven hundred and sixty feet, or an average length of fifty-nine feet per service. To make these connections it was necessary to extend the distribution mains as shown in the table. Several applications for water service have been received and will be installed as soon as conditions will permit.

To prevent the excavation of the new paved roadway on Salem St., five service taps were made and pipes laid to street line for possible future developments. In the new construction on High St. three service taps were made and pipe laid to street line for future possible developments.

Meters

One hundred and five new meters were added in 1931. All were carefully tested by our Meter Department before being placed in service. Two hundred and eighty-three old meters, which had been in service for many years, were taken out, repaired, cleaned and tested. Although there were about fourteen different makes of meters, 98 per cent were found to be in first class condition.

During the year the normal amount of repairs were made on house services such as repairing pipes through cellar walls, new shut offs and clearing service boxes that had become filled up with roots, etc. On North Main Street every gate box, both mains and house service, have been inspected and put in first class condition.

1931 Main Water Pipe Extension

| Street | 16" | 12" | 10" | 8" | 6" | 1¼" | Total |
|-----------------------------|-------|--------|-------|-------|--------|-------|--------|
| California Rd. | | | | | 178.0 | | 178.0 |
| Grove St. | | 2899.7 | | | | | 2899.7 |
| High St. | | | | | 20.0 | | 20.0 |
| Lee St. | | | | | 118.0 | | 118.0 |
| Lewis St. | | | | | 190.0 | | 190.0 |
| Main St. | | | | | 375.0 | | 375.0 |
| Private way to New P. S. | | 1244.0 | | | | | 1244.0 |
| Pearl St. | | | | | | 110.0 | 110.0 |
| Pinevale Ave. | | | | | 257.0 | | 257.0 |
| Prescott St. | | | | | 697.5 | | 697.5 |
| Smith Ave. | | | | | 476.5 | | 476.5 |
| Suction Lines | 116.0 | | | | | | 116.0 |
| Line "A" | | 300.0 | 320.0 | 275. | | | 895.0 |
| Line "B" | | 270.0 | 320.0 | 300.0 | | | 890.0 |
| Van Norden Road | | | | | 222.0 | | 222.0 |
| Virginia Road | | | | | 113.0 | 125.0 | 238.0 |
| Winthrop Ave. | | | | | 346.0 | | 346.0 |
| Woodbine St. | | | | | | 88.0 | 88.0 |
| Totals | 116.0 | 4713.7 | 640.0 | 575.0 | 2993.0 | 323.0 | 9360.7 |

Development of Reading Water Supply

At an adjourned special town meeting held November 9, 1889, for the purpose of electing a board of Water Commissioners to act for the town in securing a source of water supply to be used by the Town for domestic and fire purposes, the following men were chosen: Lewis M. Bancroft, George E. Abbott, and Edward C. Nichols. Previous to the appointment of this Board of Water Commissioners several other committees had been appointed to investigate the matter of water supply, and tests were made in various sections of the town for suitable water supply.

Several sources of supply had been suggested, such as by arrangement with the Town of Woburn connecting with their water mains, by contract with the Wakefield Water Company for a supply from Wakefield Lake, also from Martin's Pond in North Reading, Swan Pond, Sandy Pond, or from wells or springs within the limits of Reading, the following localities being considered: Cedar Swamp, Birch Meadow, Bancroft Meadow, One Hundred Acre Meadow, Cummings' Spring, the swamp land bordering Lake Quannapowitt, and the Ipswich River on Mill St. known locally as Lobbs Pond Mills.

As the last named location offered the most satisfactory source of supply (tests having been made in several places) it was determined to drill wells and erect a pumping station on the south banks of the Ipswich River at Mill Street. Mr. M. M. Tidd, C. E. of Boston, Mass., was employed to plan and install the system of water works. Mr. Tidd immediately commenced operation and prepared specifications for cast-iron pipe, pipe laying, gates and hydrants, stand-pipe, pumping station, pumping machinery, filter gallery, and wells. Proposals for the building or supplying of these items were received by the Board of Water Commissioners and contracts awarded after careful consideration.

In September, 1890, Mr. Lewis M. Bancroft was elected Superintendent of the Water Department, and in January, 1891, Mr. Frank F. Strout was appointed engineer in charge of the pumping station, and continued in that capacity until December 7, 1931. At that time he was put in charge of the new station in One Hundred Acre Meadow.

In 1893 a disagreeable odor was manifested in the water, and it was found on analysis by the State Board of Health to contain a considerable amount of iron. To correct these conditions a system of water filtration was installed, a dam which blocked the flow of water in the river removed, and a dike, running parallel with the river, and forming a barrier against the overflow of the river during the flood seasons was built, protecting the filter bed which was installed in the meadow west of the pumping station. The water from this filter, after being pumped to an aerating basin, is delivered through a hopper at one end of the basin, and as it rises meets the descending supply of milk of lime. On receiving the lime it passes into the aerating basin proper, which is so divided by partitions as to cause the water to travel back and forth four times before passing over the final weir and entering the settling basins below. This method proved so satisfactory as to excite favorable comment from the *Engineering Magazine*, which contained an account of this project, in January, 1897.

In 1897 a dwelling house was constructed adjacent to the pumping station and was occupied at once by Mr. Strout. In 1889 a lime house containing an apparatus for automatically feeding lime into the water aerator was constructed, thus doing away with hand feeding of lime. In 1910, after an intensive research and numerous experiments carried on by Mr. R. L. Weston, a new water filtration system was installed consisting of three rectangular concrete tanks to hold the filtering material, an electric power pump, and an air compressor and rotary pump for the purpose of cleaning the filter tanks, this machinery being powered by electricity.

In 1914 it was deemed advisable to run the water main on South Main St. to the Stoneham line, making it possible, in event of emergency, to connect with the Stoneham system. Since there has been no

increase in the supply of water since the installation of the water works system, and the consumption had increased more than 100,000 gallons per day, it was felt at this time that an additional supply should be acquired. To this end Mr. R. L. Weston was again engaged by the Town, with the result that a well 267 feet deep, and eight inches in diameter was drilled near the pumping station in 1915. This water flowed freely from the pipe at the rate of 800 gallons per day, analyses proving it very desirable, soft water, with very little iron. A deep well pump was installed and the water pumped directly into the clear water well, greatly improving the quality of the water supply. In 1917 five more deep wells were drilled, four of which proved satisfactory.

In 1923 it was stated by the State Board of Health that the water which was being used from the Ipswich River was not suitable for consumption, and a new source of supply should be found as soon as practicable. At this time about 60 per cent of the supply of water consumed was taken from the filter gallery, the other 40 per cent being taken from the deep or Artesian wells.

Mr. F. A. Barbour, Consulting Engineer of Boston, was employed by the Town to make investigation for an additional water supply. After making a thorough survey of all possible sources he recommended the Metropolitan System as the only solution, at a rate to the Town of \$108 per million gallons consumed. Also in 1927 the Town of Wilmington offered a rate of \$100 per million gallons, but as it was estimated that the interest on our pipe investment would cost \$30 per million gallons more, these offers were not accepted, and in 1929 an important addition to the pumping station was made with the installation of a machine for adding chlorine to the water. This chlorinator eliminates all danger of pollution.

In 1930 the firm of Metcalf & Eddy were engaged to drive test wells in Bare Meadow and Hundred Acre Meadows as a possible source of supply. The wells driven in Bare Meadow proved unsatisfactory, the stratum and texture of sub-grades making the wells driven useless, and after driving nine wells in this area no further attempts were made to acquire a source of water supply from this section. As our annual report for 1930 contained the full details of this firm's explorations further discourse on the subject is superfluous.

Driving operations were begun in Hundred Acre Meadow beginning at the Wilmington line. A series of sixteen wells were driven at widely separated points throughout the meadow. The wells proved that this territory was well suited for the development of a ground water supply, although it was felt that before this area was further developed more definite information should be obtained by a continuous pumping test. Such a test was started June 10, and continued until August 1, 1931. During this test, analysis of the water was made and

found to contain no iron. The results of the test proved very satisfactory.

On October 31, 1930 the firm of Weston & Sampson, consulting engineers of Boston, Mass., were employed by the Board of Public Works to make a careful study of conditions in Hundred Acre Meadow relative to a future water supply from this area, and to report in detail and cost of creating a building, furnishing equipment, driving and connecting wells, etc. As these details were also contained in our 1930 Town report, further explanation is unnecessary at this time. After receiving from the engineers and the State Board of Health favorable reports as to the quality and generous supply of water from this area, the Board of Public Works accepted these reports and had an article inserted in the Town warrant of March 2, 1931 to raise and appropriate the sum of \$50,000 for the development of the water supply.

Construction of New Water Supply

Early in March 1931, the construction of a twelve inch water main was begun from the corner of Grove and Franklin Streets, up Grove St. to the new pumping station. A total length of 4,143.9 feet of 12" pipe was laid, and four hydrants set. From a point on Grove Street at the intersection of a private lane leading through the properties of Meadow Brook Golf Club and S. H. Carroll, the pipe was laid through a stretch of woodland, later a gravel roadway was built by the Highway Department following the line of the pipe to the station; all work being done by Town labor. The Pumping Station is located at the westerly end of a gravel knoll near the edge of the meadow and quite central with respect to the well field.

The contract for the building of the station was awarded to A. P. Rounds, contractor of Stoneham, Mass., and for the sum of seven thousand five hundred fifty-three and 73-100 (\$7,553.73) dollars. Owing to the location of the structure and the wet spring, great difficulty was encountered by the builder from the start. The floor of the station is at elevation 87 or five feet below the ground water level. This depth is made necessary, as in a driven well water supply system, the lowering of the pumps is essential to reduce the suction lift. The building itself is 35 x 26 feet inside dimensions. The lower walls and floor are of water-tight concrete, with one sump well provided in the floor; the concrete wall being 7.5 feet below finished grade. The walls are of red brick, the roof is of slate, making a fire-proof building which is essential owing to the isolation of the station.

The Turbine Equipment Company of New England was awarded the contract for the complete installation of the pumping equipment for the sum of seven thousand, eight hundred ninety-eight (\$7,898.00) dollars.

R. W. Totten, Reading, Mass., was awarded the heating contract consisting of one 1-716 Richardson and Boynton hot water sectional boiler and Williams Automatic oil burner for the sum of eight hundred thirty-five and 22-100 (\$835.22) dollars.

Clapp and Leach, Inc., Reading, Mass., was awarded the contract for the electric wiring and fixtures for the sum of two hundred and eight (\$208.00) dollars.

S. B. Hamilton was awarded the contract to drive twenty-five additional wells also to make all connections to the suction main including the ten wells previously driven. Each individual well was connected to the cast iron suction mains leading to the pumping station by means of a special "2 1-2" Wye branch, gate valve, lead goose neck and wrought iron piping.

A special meeting of the Board held August 10, 1931 for the purpose of laying cast iron suction mains, only two bids were received. The lowest bid was for \$5,400. At my suggestion to the Board, made because of the unemployment situation, that this work could be handled entirely by town labor, with very little expense in regards to extra equipment and at a cost a great deal lower than bids received, the Board voted that the work be accomplished in this manner.

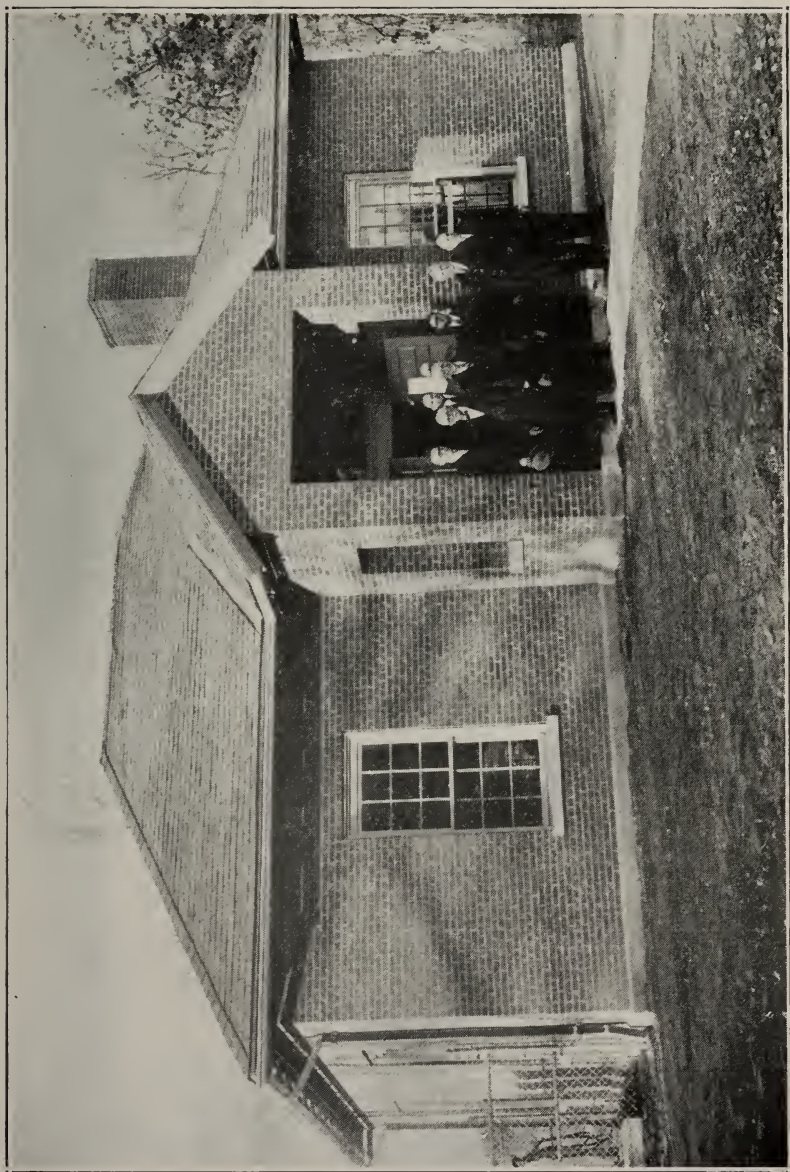
The suction main from the pumping station to the well field is 16" in diameter, 110' in length. Placed on the end of this line is a cross 16" x 16" x 12" where the two branch lines connect. Line A runs in a south westerly direction and consists of the following: 300' of 12", 320' of 10", 275' of 8", sixteen wells being connected. Line B running in a north easterly direction consists of the following: 270' of 12", 320' of 10" and 300' of 8," seventeen wells being connected. These suction mains allow a total capacity without excessive friction of at least two million gallons in twenty-four hours.

The character of the underlying soil in this area which was composed of fine sand and water made the construction of the suction lines a very difficult undertaking. Owing to the depth of the trench and the water level being only 6 inches below the surface of the ground, pumps were in constant operation day and night until this project was completed, and the entire cost was under 60 per cent of the lowest bid received.

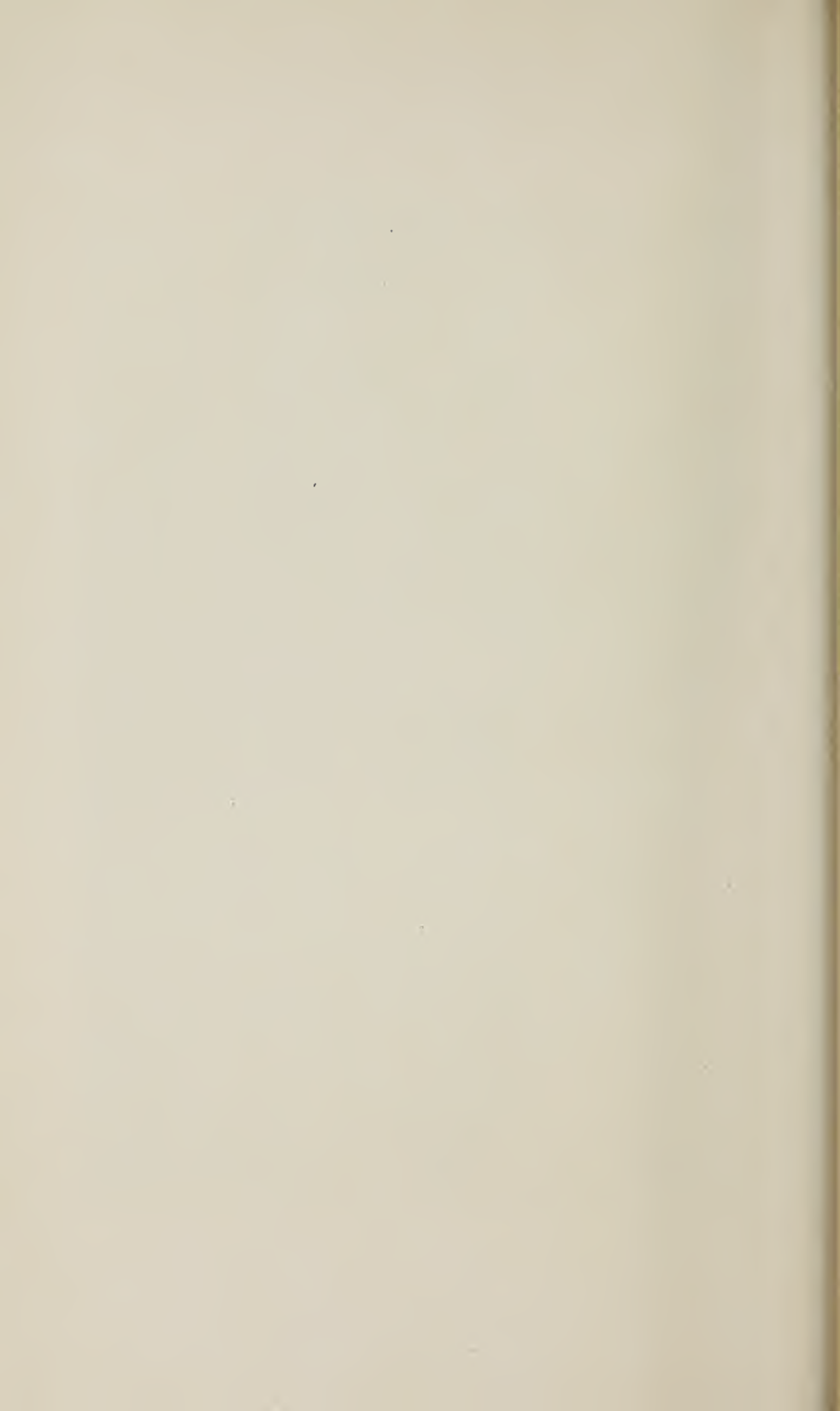
With a good water supply in this vicinity, additional driven wells can be provided from time to time as necessary to meet the increased consumption.

The Town is very fortunate in being able to secure this valuable area for its future water supply.

The following gives the pumping heads at various rates of pumping with the present distribution piping and with a new 12" main from Franklin St. to the center of the Town.



New Pumping Station in Hundred Acre Meadow.



The static pumping head assumes a full stand-pipe and the ground water at the wells lowered 12 ft. At the present time the average level of the water in the standpipe is about 9 ft. below the top and the level of the ground water has been lowered but little.

These heads are also based on the friction obtained in the new 12" force main from the pumping station to Franklin St. Frictions will increase with corrosion until in 20 years the pumping heads will be several feet greater.

| Rate of Pumping (G. P. M.) | Static pump- ing head (feet) | Pipe Friction (feet) | Present piping (feet) | Total Pumping Head New 12" main (feet) |
|----------------------------------|------------------------------------|----------------------------|-----------------------------|--|
| 200 | 227 | 6 | 233 | 230 |
| 300 | " | 13 | 240 | 234 |
| 400 | " | 23 | 250 | 237 |
| 500 | " | 36 | 263 | 241 |
| 600 | " | 52 | 279 | 245 |
| 700 | " | 70 | 297 | 250 |
| 800 | " | 91 | 318 | 260 |
| 900 | " | 114 | 341 | 271 |
| 1000 | " | 139 | 366 | 282 |
| 1100 | " | 170 | 397 | 293 |

New Pumping Station

The new station which takes its supply from driven tube wells is quite unique in its design and operation. The water is pumped by means of motor driven centrifugal pumps, an unusual feature, as most of the older driven well stations use costly slow speed plunger pumps in view of the quantity of air usually drawn from driven wells with the water.

The equipment includes a sand chamber 6 ft. in diameter x 10 ft. high, the top section of which is divided off to form a vacuum tank. Two motor driven Nash vacuum pumps are automatically controlled by vacuum switches and through a series of air traps, or valves, remove all the air from the entering water and maintain a constant water level in the sand chamber so that this water flows into the pumps and keeps the main pumps primed at all times.

The pumps consist of one 75 HP two-stage De Laval centrifugal pump with direct connected electric motor, and one 125 HP De Laval pump with direct connected motor. Each of these is designed to pump for the present 525 G. P. M., although they will pump considerably more than this contract amount, if desired.

The driving motors and the pumps are large enough so that at some later date by an inexpensive change to the pump runners, or impellers, the smaller pump can deliver 700 G. P. M. and the larger pump 1,050 G. P. M. against the full pumping head.

The switchboard was built by the Sundh Electric Company and is of the full automatic type, the two main pumps and the vacuum pumps starting and stopping automatically, depending upon the level in the standpipe and the degree of vacuum in the vacuum tank.

The entire installation: pumps, motors, sand chamber, piping, wiring, etc., was done by the Turbine Equipment Company of New England.

HIGHWAY DEPARTMENT

To the Board of Public Works:

Gentlemen:

The following is the yearly report of the Highway Department. Appropriation and Balances.

Voted in March Town Meeting, 1931:

| | |
|--|-------------------|
| 1. Highway Maintenance and Construction | \$ 44,000.00 |
| 2. Chapter 90—Salem St. Construction | 4,000.00 |
| 3. Removal of Snow and Ice | 5,000.00 |
| 4. Maintenance of Storm Drains | 3,000.00 |
| 5. Sidewalk Construction | 8,000.00 |
| 6. Development of Storm Water Drainage | 14,000.00 |
| 7. Care of Dumps | 600.00 |
| 8. Shackford Rd. Construction under Betterment Act | 400.00 |
| 9. Arthur D. Gordon Taking, Reading Sq. .. | 380.00 |
| | <hr/> \$79,380.00 |

Unexpended Balances from Previous Appropriations:

| | |
|--|-----------|
| 10. 1930 Storm Water Drainage | \$ 156.19 |
| 11. Survey and Plans for Special Drainage... | 312.51 |

468.70

| | |
|---|----------|
| Chapter 90—State & County Appro. for Salem St. construction | 8,000.00 |
| Transferred to Snow & Ice Acct. from Reserve Fund Aug. 1931 | 700.00 |

Total 1931 Appropriations and Balances

Fwd. from 1930 \$ 88,543.70

Expenditures and Balances of the above Appropriations:

| | |
|---|-------------|
| 1. Appro. for Maint. & Const. | \$44,000.00 |
| Transferred from Shackford Rd. Acct. | 318.24 |
| Misc. Credit | 2.16 |

Total \$44,320.40

Expended :

| | | |
|----------------------------------|-------------|-------------|
| Pay Roll | \$16,542.75 | |
| General Repairs | 1,947.43 | |
| New Equipment | 7,245.00 | |
| Road Material | 10,192.21 | |
| Tools, Misc. Supplies, etc. | 8,392.91 | |
| | <hr/> | |
| Total | | \$44,320.30 |

| | | |
|--------------------------|--|--------|
| Balance Unexpended | | \$.10 |
|--------------------------|--|--------|

| | | |
|---|--|-------------|
| 2. Chapter 90—Salem Street Construction | | \$ 4,000.00 |
| Received from State and County | | 8,000.00 |

| | | |
|-------------|----|-----------|
| Total | \$ | 12,000.00 |
|-------------|----|-----------|

Expended :

| | | |
|--------------------------------|-------------|-----------|
| Pay Roll | \$ 4,932.52 | |
| Road Material & Supplies | 7,067.48 | |
| | <hr/> | |
| Total | | 12,000.00 |

| | | |
|--------------------------|----|-----|
| Balance Unexpended | \$ | .00 |
|--------------------------|----|-----|

| | | |
|----------------------------------|----|----------|
| 3. Removal of Snow and Ice | \$ | 5,000.00 |
| Transferred from Reserve Fund | | 700.00 |

| | | |
|-------------|----|----------|
| Total | \$ | 5,700.00 |
|-------------|----|----------|

Expended :

| | | |
|-------------------------------------|-------------|----------|
| Pay Roll | \$ 4,159.25 | |
| Sidewalk Plowing | 919.88 | |
| Repairs, Equipment & Supplies | 620.80 | |
| Total | | 5,699.93 |

| | | |
|--------------------------|----|-----|
| Balance Unexpended | \$ | .07 |
|--------------------------|----|-----|

| | | |
|--------------------------------------|----|----------|
| 4. Maintenance of Storm Drains | \$ | 3,000.00 |
|--------------------------------------|----|----------|

Expended :

| | | |
|----------------|-------------|----------|
| Pay Roll | \$ 2,972.50 | |
| Bills | 18.73 | |
| | <hr/> | |
| Total | | 2,991.23 |

| | | |
|--------------------------|----|------|
| Balance Unexpended | \$ | 8.77 |
|--------------------------|----|------|

| | | |
|--|-------------|--------------|
| 5. Sidewalk Construction | | \$ 8,000.00 |
| Expended: | | |
| Pay Roll | \$ 4,534.95 | |
| Equipment | 872.20 | |
| Supplies & Misc. | 2,592.85 | |
| | <hr/> | |
| Total | | \$ 8,000.00 |
| | | <hr/> |
| Balance Unexpended | | \$.00 |
| 6. Development of Storm Water Drainage | | \$ 14,000.00 |
| Balance Forward from 1930 .. | | 156.19 |
| | | <hr/> |
| Total | | \$ 14,156.19 |
| Expended: | | |
| Pay Roll | \$ 6,168.36 | |
| Supplies | 6,981.39 | |
| | <hr/> | |
| Total | | 13,149.75 |
| | | <hr/> |
| Balance Unexpended | | 1,006.44 |
| 7. Care of Dumps | | \$ 600.00 |
| Expended: | | |
| Pay Roll | \$ 593.14 | |
| | <hr/> | |
| Total | | 593.14 |
| | | <hr/> |
| Balance Unexpended | | \$ 6.86 |
| 8. Shackford Rd. Const. under Betterment Act | | \$ 400.00 |
| Transferred to Highway Dept... | | 318.24 |
| | | <hr/> |
| Balance | | \$ 81.76 |
| Expended: | | |
| Payroll | \$ 223.66 | |
| Tarvia | 176.34 | |
| | <hr/> | |
| Total | \$ 400.00 | |
| Transferred to Highway Dept. | 318.24 | |
| | <hr/> | |
| Total | \$ 81.76 | |
| | | <hr/> |
| Balance Unexpended | | \$ 81.76 |
| | | <hr/> |
| Balance Unexpended | | \$.00 |

| | | | | |
|--|-------------|---------------|----------|--------------|
| 9. Arthur D. Gordon Taking Reading Sq. | | \$ | 380.00 | |
| Expended: | | | | |
| Taking | \$ | 374.06 | | |
| | | | | |
| Total | | | 374.06 | |
| | | | | |
| Balance Unexpended | \$ | 5.94 | | |
| 10. (See No. 6.) | | | | |
| 11. Survey and Plans for Special Drainage— | | | | |
| 1930 Balance Forward | \$ | 312.51 | | |
| Expended: | | | | |
| Pay Roll | \$ | 205.01 | | |
| Bills | | 35.00 | | |
| | | | | |
| Total | \$ | 240.01 | | |
| | | | | |
| Balance Unexpended | \$ | 72.50 | | |
| | | | | |
| | | Totals | | |
| Items | Appro. | Expend. | Balances | Bal. Forward |
| 1. | \$44,320.40 | \$44,320.30 | \$.10 | |
| 2. | 4,000.00 | 4,000.00 | .00 | |
| 3. | 5,700.00 | 5,699.93 | .07 | |
| 4. | 3,000.00 | 2,991.23 | 8.77 | |
| 5. | 8,000.00 | 8,000.00 | .00 | |
| 6. & 10. | 14,156.19 | 13,149.75 | 1,006.44 | 1,006.44 |
| 7. | 600.00 | 593.14 | 6.86 | |
| 8. | 81.76 | 81.76 | .00 | |
| 9. | 380.00 | 374.06 | 5.94 | |
| 11. | 312.51 | 240.01 | 72.50 | 72.50 |

HIGHWAY DEPARTMENT

The work performed by the Highway Department this year consists of the following:

Snow and Ice, Maintenance, Construction, Drainage, Sidewalk and General work.

Snow and Ice. Our equipment this year was the best we have ever had. In the month of February when we had our heaviest snow storm there was not one machine put out of commission with the storm. They did fine work and within a few hours after the storm was over all streets and sidewalks were open to travel. Sidewalk snow plowing is a problem in itself. It is very hard to know when to call the men to duty because it costs about \$150 every time the plows are called. After the plows have finished people walk in the streets instead of the sidewalks and this will continue until some other method has

been discovered to remove snow from the sidewalks.

Maintenance

We continued the policy adopted by the Board of Public Works in 1930 by doing all work with town labor. By the carrying out of this program in all our departments we have saved money that would have gone to contractors. We have given employment to a large number of men, and much of the material used by the Board of Public Works was purchased locally. There have been at times 101 men on the Board of Public Works payroll per week.

The Spring of 1931 found our highways in very good condition. The general maintenance work was started as soon as the frost left the ground and was carried on through the summer. The work consisted of scarifying and grading where necessary, treating with Tarvia B or Liquid C Asphalt as conditions permitted and covering with pea stone or screened sand. Pea stone was used in an endeavor to obtain a better wearing surface. The final results proved, however, that the sand we were able to get from our sand pit on Grove st. has a better wearing surface and could be purchased at a lower cost.

Materials used on maintenance work were 40,090 gallons Tarvia B covering an area of 151,000 square yards of street surface, 10,000 gallons Liquid C Asphalt covering an area of 52,000 square yards, making a total of 203,000 square yards.

For the general upkeep of our streets we have had to use 6,209 gallons of K. P requiring 411 tons of pea stone.

Special Town Meeting held December, 1930.

The following streets were accepted:

- 200 ft. on Hanscom Ave. from Hartshorn Street southerly,
- 165 ft. on Weston Road from Winthrop Ave., easterly,
- 205 ft. on Henzie St. from Grove, easterly,
- 200 ft. on Tower Road between Hanscom Ave. and Winthrop Ave.,
- 240 ft. on Longview Rd. from Palmer Hill, northerly,
- 308 ft. on Palmer Hill between West St. and Longview Rd.

Because these streets were accepted so late in the fall it was impossible to start work until spring of 1931. At that time these streets were graded, rolled and treated with Tarvia B comprising an area of 32,952 square yards.

March 9, 1931 Town Meeting.

The following streets were accepted:

- 321 ft. on Wells Road between Forest Glen Road and Irving St.,
- 360 ft. on Pinevale Ave. from end of 1929 acceptance,
- Area covered 1,818 square yards.

560 ft. on Shackford Road was accepted and improved under the Betterment Act. These streets were graded with gravel and rolled and treated with Tarvia B. The area covered was 1,493 square yards and cost \$11 per square yard.

Special August 10, 1931, Town Meeting.

It was voted to relocate corner of Summer Ave. and West Street. This hair pin turn has been a hazard to traffic and there have been a great many accidents. By this relocation it has added 1,676 square feet of area to this traveled way.

The Town also voted on August 10th to relocate the corner of Lowell and High Sts. by having the electric car tracks removed and High Street resurfaced. This has aided travel greatly and allowed for a sidewalk to be used by the school children at this dangerous point.

There are also many dangerous curves on Franklin and Grove Street. The traffic on these streets has increased to the extent that these corners have become dangerous. I estimate that \$3,000 would enable the Highway Department to correct this bad condition, both on Franklin and Grove Street, and I strongly recommend that this work be taken care of as soon as possible.

Construction: The construction on Salem St. started this year at station 24+50 at Winter St. and running westerly to station 51+50 at Harnden St. a distance of 2,700 ft. Width of finished surface was from 24 to 32 ft. This construction called for a gravel sub-base course of No. 1 trap rock rolled to 4" and bound with sand or stone dust, a top course of 2" of No. 1 trap rock penetrated with two gallons of asphalt per square yard and sealed with $\frac{3}{4}$ gallon per square yard and covered with pea stone, a total area of 9,094 square yards. This road should accommodate the increasing automobile traffic for many years.

Construction on High St.

Before construction could be started on High Street the electric car tracks had to be removed. This work was done by the Eastern Massachusetts Street Railway Co. There were also three extra large elm trees removed by the tree warden.

A twenty-four foot roadway was built from Middlesex Ave. to Lowell St., a distance of 2,140 ft. The work consisted of scarifying the old roadway and pushing the material over where the old car tracks were, making a first class sub-base top course consisting of No 1 trap rock rolled to four inches, penetrated with two gallons of Texas Asphalt per square yard, and sealed with $\frac{3}{4}$ gallon Bermudez per square yard. Altogether there were 6,038 square yards of hardened surface, at a cost of \$.61 per square yard.

A new gravel sidewalk was built on the northerly side of High St. from Woodward Ave to Lowell St.

On May 24 the Eastern Massachusetts Street Railway Company replaced all electric cars operating in Reading with buses and abandoned their car rails which were not removed. In an endeavor to economically and efficiently cover these tracks and make them safe for travel until money is available to build a more permanent surface, the tracks on John, Village, Washington and Lowell Streets were cov-

ered with gravel and treated with Tarvia B. Five hundred and eighty-eight cubic yards of gravel were used for this work and 1,280 gallons of Tarvia B. applied.

On May 15, 1931, a new fifteen ton gasoline driven road roller was purchased from the Buffalo Springfield Roller Co. The old twelve ton roller was accepted as part payment. After eight months of continuous service we find the gasoline driven roller much more economical than the steam driven machine. It is much easier to handle does not require a licensed engineer and is available at all times. Two employees of the Highway Department have been trained as roller men and have done very satisfactory work.

The cutting of corners by street traffic can only be prevented by the construction of corner curbs. This work also adds greatly to the general appearance of street intersections. This past year corner curbs were installed at the following locations:

| | |
|-----------------------------------|---|
| Highland and Locust | 1 |
| Mineral and High | 1 |
| Main and Chapin Ave. | 1 |
| Penn. Ave. and Virginia Ave. | 4 |

The following list of street intersections will give an idea where corner curbs will be a benefit and the number needed at each intersection:

| | |
|---------------------------------------|---|
| Main and Federal St. | 2 |
| High and Dudley St. | 2 |
| Bancroft Ave. and Mt. Vernon St. | 4 |
| Mineral St. and Summer Ave. | 4 |
| Mineral St. and Hancock St. | 2 |
| Bancroft Ave. and Woburn St. | 2 |
| Prescott St. and Pratt St. | 2 |
| Washington St. and Prescott St. | 2 |
| Avon St. and Ash St. | 2 |
| Prescott St. and Perkins Ave. | 2 |
| Vine St. and Woodward Ave. | 1 |
| Prescott St. and Hillcrest Rd. | 1 |
| Oak St. and Hillcrest Rd. | 2 |
| Howard St. and West St. | 4 |
| Hopkins St. and Main St. | 2 |
| Hillcrest Rd. and Howard St. | 4 |
| Prescott St. and Arlington St. | 1 |
| Elliott St. and Haven St. | 2 |
| Grand St. and Middlesex St. | 4 |

765 ft. of straight granite curb stone has been set in front of property at the request of property owners, they paying one-half the cost.

Curbing Installed 1931

| Name | Location | Feet | Returns |
|----------------------------|-----------------|--------|---------|
| Mabel H. Lewis, | 22 Ash St. | 40.90 | |
| Marion C. Rich, | 22 Berkeley St. | 66.20 | 2 |
| Editha Merritt, | 1 Dudley St. | 54.80 | 2 |
| Edith L. Ralston, | 1-A Dudley St. | 45.00 | 2 |
| Harry H. and Maude Johnson | | | |
| 3 Dudley St. | | 58.40 | 2 |
| Lucy W. Horton, | 5 Dudley St. | 58.70 | 2 |
| William T. Pollitz, | 7 Dudley St. | 57.00 | 2 |
| John O. Leighton, | 13 Dudley St. | 60.50 | |
| Eleanora G. Day, | 18 Dudley St. | 60.50 | |
| Reading Realty Trust, | Penn. Ave. | 176.00 | |
| James P. Carleton, | 179 Summer Ave. | 65.00 | 2 |
| Reading Realty Trust | Lot No. 10 | | |
| Virginia Rd. | | 60.00 | 2 |
| Lucy C. Danforth | 33 Woburn St. | 48.60 | 2 |
| | | <hr/> | |
| | | 851.60 | 18 |

Curbing Reset 1931

| Street | Reset | Curb-feet New | Curb-feet | Returns |
|-----------------------|-------|---------------|-----------|---------|
| Salem | | 233.0 | 12.7 | |
| Main | | 189.3 | 204.1 | 3 |
| Washington | | 238.6 | | |
| Berkeley and Woburn | | 34.0 | | |
| Mineral and Vine | | 141.7 | 20.2 | |
| Mineral and High | | | 13.2 | |
| Mineral | | 62.1 | | 1 |
| Highland and Locust | | | 19.7 | |
| Middlesex and Deering | | 40.3 | | |
| Ash | | 52.6 | | 1 |
| Pleasant | | 71.7 | | 2 |
| | | <hr/> | <hr/> | |
| Totals | | 1113.0 | 269.9 | 12 |

Bound Stone

Bound Stones have been set to establish the line of the streets as required by law:

- 71 on Haverhill St.
- 2 on Pratt and Vista Ave.
- 3 on Hancock St. and Glen Rd.
- 3 on High and Lowell St.
- 3 on Temple and Woburn St.
- 5 on Pinevale Ave.
- 1 Reset on West and Howard St.

1931 Sidewalk Construction

| Street | Granolithic | | Sq. Yds. |
|-----------------------|-------------|-------|----------|
| | Length | Width | |
| Berkeley | 802.53 | 4.5 | 456.07 |
| Deering | 284.75 | 4.5 | 153.86 |
| High | 90.10 | 5.0 | 54.83 |
| Highland | 81.39 | 4.5 | 46.79 |
| Middlesex Ave. | 76.50 | 4.5 | 41.71 |
| Mineral St. | 562.67 | 4.5 | 307.91 |
| Main St. | 37.35 | 9.5 | 41.40 |
| Vine St. | 293.73 | 4.5 | 152.76 |
| Wenda St. | 338.52 | 4.5 | 172.55 |
| Woburn St. | 272.50 | 4.5 | 169.35 |
| Total | 2,840.04 | 5.05 | 1596.99 |
| Macasphalt | | | |
| Ellis Ave. | | | 43.88 |
| Washington-Ash-Woburn | | | 327.00 |
| Salem St. | | | 310.00 |
| | | | 630.33 |

Stone Dust

770 Tons Stonedust at 24 sq. yds. to ton equal 18,480 sq. yds.

1931 Storm Water Drainage Program advanced as follows:

The Town raised and appropriated through Article 23 at the March Town meeting, \$14,000 for the further development of our storm water drainage system. The following table will illustrate the work that has been accomplished:

| | Size | Lgth. | C. | M. |
|---|------|-------|----|----|
| | | | B. | H. |
| Hanscom Ave. from Lowell St. Northerly | 10" | 215' | 2 | 0 |
| Lowell St. between Hanscom & Deering St. | 12 | 188 | 2 | 1 |
| High St. between Woodward Ave & Vine St. | 21 | 295 | 1 | 0 |
| Howard St. from West St. Westerly | 15 | 210 | 1 | 1 |
| West St. from Howard St. to Scotland Rd. | 15 | 280 | 1 | 0 |
| West St. from Scotland to Oak St. | 12 | 870 | 2 | 0 |
| West St. from Oak to County Rd. | 10 | 355 | 2 | 0 |
| Pearl St. in approach to Salem St. | 12 | 76 | 2 | 0 |
| Pratt St. West of Fairview Ave. | 24 | 170 | 3 | 1 |
| Prescott St. from West St. Easterly | 12 | 720 | 2 | 1 |
| Salem St. from John St. to Memorial Park | 21 | 560 | 3 | 1 |
| Salem St. from Harnden St. to John St. | 18 | 222 | 2 | 0 |
| Salem St. from Salem St. garage to John St. | 15 | 155 | 2 | 0 |
| Harnden St. at Junction of Salem | 18 | 35 | 1 | 0 |

| | Size | Lgth. | C.B. | M.H. |
|---|------|-------|-------|-------|
| Salem St. from Pearl St. to Memorial Park | 12 | 700 | 6 | 1 |
| Sunnyside Ave. northerly through land of Andrew Christensen | 30 | 224 | 1 | 2 |
| Sunnyside Ave. from Vista Ave. Westerly | 27 | 220 | 1 | 0 |
| Vista Ave from Pratt St. to Sunnyside Ave. | 24 | 507 | 1 | 0 |
| Tower Rd. between Hanscom Ave. and Winthrop | 12 | 152 | 2 | 1 |
| Vine St. from High Westerly | 20 | 205 | 1 | 0 |
| Harriman Ave. between Grand and Deering | 20 | 396 | 2 | 0 |
| Charles St. at junction of Pearl | 12 | 125 | 1 | 0 |
| Belmont St. from Orange St. southerly | 12 | 205 | 2 | 0 |
| Orange St. from Belmont St. to Winter St. | 15 | 250 | 4 | 0 |
| Orange St. through property of Dennis Meuse | 18 | 60 | 0 | 0 |
| Franklin St. east of Grove St. through prop- erty of John McLeod | 12 | 223 | 1 | 0 |
| Willow and West St. Southerly | 30 | 130 | 0 | 0 |
| | | <hr/> | <hr/> | <hr/> |
| | | 7748 | 48 | 9 |

I would recommend that the following drains be installed in 1932:

John, Village and Green.

Woodward Ave. and Vine.

Summer Ave. from Ellis Ave to Hopkins St.

Scotland Rd. from Summer Ave. to Hillcrest Rd.

The water from all these streets runs on private property.

Open Ditches

25,750 ft. of open ditches have been deepened, widened and cleaned as follows: From Hancock St. to Railroad tracks at Ash St. 9,000 ft. From Intervale Terrace to old sand pit on Longwood Road 6,000 ft. From Howard St. through Moody property on West 3,600 ft., from Charles St. to Eaton St. 3,250 ft., off Grove St. 1,000 ft., from Washington St. Main and John Sts., 2,500 ft., Salem St. near Libby Ave., 400 ft.

It has been this work that has helped the unemployed. When the men have not been employed on the above work they have assisted the Cemetery Department in building permanent driveways, working for the Water and Sewer Departments, cutting brush in out-lying streets, clearing away snow from skating pond in Memorial Park and repairing snow plows and rolling equipment.

SEWER DEPARTMENT

To the Board of Public Works:

Gentlemen :

The following is the yearly report of the Sewer Department:
Construction and Maintenance:

| | | |
|---|-------------|--------------|
| Balance Brought Forward | | \$ 3,527.79 |
| Receipts for 1931 | | 12,567.31 |
| | | <hr/> |
| Total | | \$ 16,095.10 |
| Construction Account: | | |
| Expended: | | |
| Pay Roll | \$ 1,282.06 | |
| Bills | 1,255.94 | |
| | | <hr/> |
| Total | \$ 2,538.00 | |
| Maintenance Account: | | |
| Expended: | | |
| Pay Roll | \$ 3,026.79 | |
| Bills | 1,470.93 | |
| | | <hr/> |
| Total | \$ 4,497.72 | |
| Maintenance and Construction Pay Roll & Bills | | \$ 7,035.72 |
| | | <hr/> |
| Balance | | \$ 9,059.38 |

House Connection Account

| | | |
|--------------------------------------|-------------|-------------|
| Balance Brought Forward | | \$ 200.00 |
| Cash Receipts 1931 | | 1,803.77 |
| | | <hr/> |
| Total | | \$ 2,003.77 |
| Expended: | | |
| 1. Pay Roll | \$ 1,147.07 | |
| 2. Refunds | 237.11 | |
| 3. Pipe | 283.44 | |
| 4. Misc. Supplies, and Repairs | 187.33 | |
| | | <hr/> |
| Total | | \$ 1,854.95 |
| | | <hr/> |
| Balance Unexpended | | \$ 148.82 |

SEWER DEPARTMENT

Main sewer extension work was started as early in the season as conditions would permit, using the regular crew and as much of the local labor as could be used, the number of men employed varying with the progress of the work. On Gardner Road four hundred and seventy-five feet of eight inch main sewer was laid, one hundred and seventy-five feet being laid through solid ledge. Three house connections were made.

Another main sewer was laid on Smith Ave. a new development off Eaton Street four hundred and seventy-five feet of ten inch main sewer was laid and eight houses connected making it a 100 per cent connected street. Thirty-five house sewer connections were made totaling 969.08 feet.

When the general inspection of sewer manholes and trunk lines was made this year several bad leaks were discovered and also considerable seepage. The large leaks have been excavated and the joints caulked although some water is still entering at certain inaccessible points, I consider the leakage very small. Considering that almost one-half of our sewer lines are below permanent ground water level the leakage is substantially less than in other municipalities connected with the Metropolitan System.

A systematic process of cleaning and flushing has been carried on in the following streets: Warren Avenue, Minot St., High St., Wenda St., Woburn St., Park Avenue, Center Avenue, Maple St., Prescott St., Chute St., and the manhole at the Junior High School.

An increase of sewerage deposits was noted along lines where only a few houses have been connected, because, as the main sewers are designed to flow two thirds full when carrying their maximum capacity, and laterals and sub-mains one-half full, not enough material is discharged to keep the mains properly flushed. It is hoped that with the new and lower sewer rates which went into effect on January 1, 1932, there will be an increase in the number of houses connected.

Note—Extracts from Rules and Regulations, Chapter 85, Acts of 1931.

Section 13. Every owner of an estate who enters his particular sewer into a common sewer shall pay for the use of such sewer an annual rental determined upon the basis of water service, as follows: For unmetered service, \$6.00 per annum: For Metered water service, as follows: First 4,000 cu. ft. of sewage delivered to sewer, 23 1-3c per 100 cu. ft.; next 4,000 cu. ft. 20c per 100 cu. ft.; next 4,000 cu. ft. 16 2-3c per 100 cu. ft.; next 10,000 cu. ft. 13 1-2c per 100 cu. ft. All in excess of 22,000 cu. ft. at the rate of 10c per 100 cu. ft. It being provided, however, that where the annual sewer rental shall exceed \$300.00, the excess of \$300.00 shall be charged for at the rate of 3 3-4c per 100 cu. ft., the quantity so delivered to be determined by the meter readings taken by the Water Department; it being further provided that any owner may place, at his own expense, a water meter which shall be approved by the Water Department to measure the amount of water which does not enter the sewer; but the annual charge shall in no case be less than \$6.00. Such charge shall be collected semi-annually and shall constitute a lien upon the real estate using the sewer, to be collected in the same manner as taxes upon real estate, or in an action of contract in the name of the Town of Reading.

RATES

Unmetered service \$6.00 per annum.

For metered service as follows:

First 4,000 cu. ft. 23 1-3c per 100 cu. ft.

Next 4,000 cu. ft. 20c per 100 cu. ft.

Next 4,000 cu. ft. 16 2-3 c per 100 cu. ft.

Next 10,000 cu. ft. 13 1-2c per 100 cu. ft.

All in excess of 22,000 cu. ft.—10c per 100 cu. ft.

If the annual sewer rental shall exceed \$300.00 the excess of \$300.00 shall be charged at the rate of 3 3-4c per 100 cu. ft.

It is imperative that a complete sewer cleaning outfit be purchased in the near future to facilitate the thorough cleaning of the above mentioned sections. All underdrains appear to be functioning properly. Four new manhole covers have replaced those broken by traffic and other causes.

The following table will serve to illustrate the progress in growth of sewer connections:

STREETS

| Streets | Possible Con- nected | Completed Con- nections | Per Cent Con- nected | No Con- struction Started | Connected to Street Line | Partially Installed to House | Revenue Charges 1930 |
|--------------------|----------------------------|-------------------------------|----------------------------|---------------------------------|--------------------------------|------------------------------------|----------------------------|
| Arlington..... | 11 | 3 | 27 | 5 | 2 | 1 | \$34.50 |
| Ash..... | 17 | 9 | 53 | 8 | .. | .. | 235.30 |
| Bancroft..... | 22 | 12 | 55 | 9 | 1 | .. | 140.70 |
| Berkeley..... | 27 | 16 | 59 | 11 | .. | .. | 268.20 |
| Brook..... | 1 | .. | .. | 1 | .. | .. | .. |
| Center Ave..... | 10 | 7 | 70 | .. | 3 | .. | 96.60 |
| Chute..... | .. | .. | .. | .. | .. | .. | 33.30 |
| Copeland Ave..... | 7 | 7 | 100 | .. | .. | .. | 234.30 |
| Dudley..... | 10 | 4 | 40 | 6 | .. | .. | 48.60 |
| Eaton..... | 2 | 2 | 100 | .. | .. | .. | 10.80 |
| Elliott..... | 5 | 2 | 40 | 3 | .. | .. | 49.30 |
| Fremont..... | 4 | 4 | 100 | .. | .. | .. | 74.33 |
| Fulton..... | 1 | 1 | 100 | .. | .. | .. | 19.50 |
| Gardner Rd..... | 10 | 4 | 40 | .. | .. | .. | .90 |
| Gould..... | 3 | 3 | 100 | .. | .. | .. | 38.10 |
| Green..... | 53 | 34 | 65 | 10 | 4 | 5 | 510.90 |
| Harnden..... | 8 | 6 | 75 | .. | 2 | .. | 204.00 |
| Haven..... | 39 | 28 | 72 | .. | .. | 2 | 926.40 |
| High..... | 14 | 5 | 35 | 7 | 2 | .. | 75.30 |
| Hillcrest Rd..... | 10 | 8 | 80 | 1 | 1 | .. | 135.00 |
| Howard..... | 18 | 15 | 83 | 2 | 1 | .. | 248.10 |
| John..... | 16 | 7 | 42 | 8 | .. | 1 | 77.40 |
| King..... | 5 | 5 | 100 | .. | .. | .. | 84.90 |
| Kingston..... | 15 | 11 | 73 | 4 | .. | .. | 131.70 |
| Lincoln..... | 7 | 4 | 57 | .. | 3 | .. | 178.80 |
| Linden..... | 9 | 5 | 56 | 3 | .. | 1 | 78.60 |
| Lowell..... | 4 | 3 | 75 | 1 | .. | .. | 46.20 |
| Main..... | 44 | 35 | 79 | 1 | 6 | 2 | 1,375.10 |
| Maple..... | 2 | 1 | 50 | .. | 1 | .. | 9.60 |
| Middle..... | 2 | 1 | 50 | 1 | .. | .. | 4.50 |
| Middlesex Ave..... | 18 | 14 | 77 | .. | 2 | 2 | 262.12 |
| Minot..... | 12 | 8 | 67 | .. | 2 | 2 | 83.10 |
| Mt. Vernon..... | 23 | 8 | 35 | 15 | .. | .. | 58.80 |
| Park Ave..... | 7 | 6 | 86 | .. | .. | 1 | 60.30 |
| Parker..... | 7 | 6 | 86 | 1 | .. | .. | 97.50 |
| Perkins Ave..... | 7 | 7 | 100 | .. | .. | .. | 189.00 |
| Pine Ave..... | 1 | 1 | 100 | .. | .. | .. | 6.90 |
| Pleasant..... | 27 | 14 | 52 | 13 | .. | .. | 191.10 |
| Pratt..... | 4 | 3 | 75 | 1 | .. | .. | 28.80 |
| Prescott..... | 53 | 40 | 75 | 1 | 6 | 6 | 516.30 |
| Prospect..... | 15 | 8 | 53 | 7 | .. | .. | 145.20 |
| Salem..... | 18 | 10 | 56 | 2 | 6 | .. | 261.90 |
| Sanborn..... | 14 | 9 | 64 | 3 | .. | 2 | 153.90 |
| School..... | 10 | 4 | 40 | 6 | .. | .. | 33.30 |
| Scotland Rd..... | 1 | 1 | 100 | .. | .. | .. | 7.20 |
| Smith Ave..... | 9 | 9 | 100 | .. | .. | .. | .. |
| Summer Ave..... | 18 | 8 | 44 | 9 | .. | 1 | 118.50 |
| Sweetser Ave..... | 5 | 1 | 20 | .. | 3 | 1 | 13.80 |
| Temple..... | 32 | 7 | 22 | .. | 19 | 6 | 433.86 |
| Union..... | 5 | 3 | 60 | 1 | .. | 1 | 51.30 |
| Village..... | 22 | 11 | 50 | 10 | .. | 2 | 175.50 |
| Warren Ave..... | 17 | 14 | 82 | .. | 2 | 2 | 178.80 |
| Washington..... | 27 | 11 | 41 | 11 | 4 | 1 | 154.23 |
| Wenda..... | 4 | 4 | 100 | .. | .. | .. | 57.60 |
| Wilson..... | 10 | 7 | 70 | 2 | .. | 1 | 76.20 |
| Woburn..... | 80 | 42 | 53 | 8 | 26 | 4 | 635.40 |
| Totals..... | 822 | 497 | 60% | 171 | 96 | 43 | \$9,411.54 |

**LENGTH OF SEWER CONNECTIONS RUN TO EITHER CURB
HOUSES, OR CONNECTED**

| Streets | Curb | Houses | Connected | Total Length |
|------------------|----------|----------|-----------|--------------|
| Arlington | 66.50 | 46.00 | 175.00 | 287.50 |
| Ash | | | 366.60 | 366.60 |
| Bancroft | | | 561.90 | 561.90 |
| Berkeley | | | 925.70 | 925.70 |
| Brook | | | | |
| Center Avenue | 52.00 | | 317.00 | 369.00 |
| Copeland Avenue | | | 450.00 | 450.00 |
| Dudley Street | | | 185.00 | 185.00 |
| Eaton | | | 106.00 | 106.00 |
| Elliott | | | 115.00 | 115.00 |
| Fremont | | | 209.00 | 209.00 |
| Fulton | | | 44.00 | 44.00 |
| Gardner Road | | | 180.50 | 180.50 |
| Gould | | | 236.50 | 236.50 |
| Green | 72.00 | 173.00 | 1,461.20 | 1,706.20 |
| Harnden | 32.00 | | 195.00 | 227.00 |
| Haven | 186.00 | 79.00 | 1,162.80 | 1,427.80 |
| High | 22.00 | | 209.10 | 231.10 |
| Hillcrest | 25.00 | | 516.00 | 541.00 |
| Howard | 25.00 | | 886.50 | 912.50 |
| John | | 37.00 | 265.20 | 302.20 |
| King | | | 306.70 | 306.70 |
| Kingston | | | 452.00 | 452.00 |
| Lincoln | 70.00 | | 186.00 | 256.00 |
| Linden | | 41.00 | 219.00 | 260.00 |
| Lowell | | | 232.50 | 232.50 |
| Main | 215.00 | 99.00 | 1,897.75 | 2,211.75 |
| Maple | 18.00 | | 40.00 | 58.00 |
| Middle | | | 36.50 | 36.50 |
| Middlesex Avenue | 48.00 | 138.00 | 983.20 | 1,169.20 |
| Minot | 42.00 | 77.00 | 331.00 | 450.00 |
| Mt. Vernon | | | 375.20 | 375.20 |
| Park Avenue | | 37.00 | 208.00 | 245.00 |
| Parker | | | 267.50 | 267.50 |
| Perkins Avenue | | | 434.80 | 344.80 |
| Pine Avenue | | | 46.00 | 46.00 |
| Pleasant | | | 775.50 | 775.50 |
| Pratt | | | 242.00 | 242.00 |
| Prescott | 140.00 | 269.00 | 2,628.20 | 3,037.20 |
| Prospect | | | 678.00 | 678.00 |
| Salem | 244.40 | | 698.60 | 943.00 |
| Sanborn | | 98.00 | 611.40 | 709.40 |
| School | | | 213.40 | 213.40 |
| Scotland | | | 60.00 | 60.00 |
| Summer | | 94.00 | 576.20 | 670.20 |
| Smith Avenue | | | 361.50 | 361.50 |
| Sweetser Avenue | 64.00 | 45.00 | 43.00 | 152.00 |
| Temple | 285.00 | 173.00 | 562.00 | 1,020.00 |
| Union | | 66.00 | 177.00 | 243.00 |
| Village | | 34.00 | 519.60 | 553.60 |
| Warren Avenue | 36.00 | 68.00 | 565.00 | 669.00 |
| Washington | 61.00 | 48.00 | 637.40 | 746.40 |
| Wenda | | | 202.50 | 202.50 |
| Wilson | | 43.00 | 287.40 | 330.40 |
| Woburn | 458.00 | 222.50 | 2,561.40 | 3,241.90 |
| Totals | 2,162.90 | 1,887.50 | 26,984.75 | 31,035.15 |

LENGTH OF MAIN SEWERS IN STREETS

| Streets | 6 inch | 8 inch | 10 inch | 12 inch | 15 inch | 18 inch | 20 inch | 24 inch | Total |
|--------------|---------|-----------|---------|---------|---------|---------|---------|---------|-----------|
| Arlington | | 399.80 | | | | | | | 399.80 |
| Ash | | 822.90 | | | 258.80 | | | | 1,081.70 |
| Bancroft | | 1,015.00 | | | | | | | 1,015.00 |
| Berkeley | | 1,256.10 | | | | | | | 1,256.10 |
| Brook | | | | | | | | 847.60 | 847.60 |
| Center | | 620.60 | | | | | | | 620.60 |
| Copeland | | 500.00 | | | | | | | 500.00 |
| Dudley | | 374.50 | | | | | | | 374.50 |
| Eaton | | | | | 907.70 | | | | 907.70 |
| Elliott | | 279.00 | | | | | | | 279.00 |
| Fremont | | 456.50 | | | | | | | 456.50 |
| Gardner Rd. | | 475.00 | | | | | | | 475.00 |
| Green | 175.20 | 1,717.40 | | | 821.60 | | | | 2,714.20 |
| Harnden | | 559.30 | | | | | | | 559.30 |
| Haven | | 1,752.80 | | | | | | | 1,752.80 |
| High | | | 1338.05 | 736.10 | | | | | 2,074.15 |
| Hillcrest | | 770.80 | | | | | | | 770.80 |
| Howard | 200.00 | 1,110.00 | | | | | | | 1,410.00 |
| Interceptors | | 205.00 | | | | | | 2732.00 | 2,937.00 |
| John | | 266.00 | | | 569.60 | | | 178.50 | 1,014.10 |
| King | 340.00 | 175.00 | | | | | | | 515.00 |
| Kingston | | 719.30 | | | | | | | 719.30 |
| Lincoln | | | 573.40 | 538.10 | | | | | 1,111.50 |
| Linden | | 735.30 | | | | | | | 735.30 |
| Lowell | | 813.10 | | | | | | | 813.10 |
| Main | | 1,246.10 | | 955.50 | | | 234.90 | | 2,436.50 |
| Maple | | 189.20 | | | | | | | 189.20 |
| Middle | | 313.60 | | | | | | | 313.60 |
| Middlesex | | 1,111.50 | | | | | | | 1,111.50 |
| Minot | | 1,409.65 | | | | | | | 1,409.65 |
| Mt. Vernon | | 698.52 | 160.00 | | | | | | 858.52 |
| Park | | 507.30 | 322.70 | | | | | | 830.00 |
| Parker | | 427.00 | | | | | | | 427.00 |
| Perkins | | 400.00 | | | | | | | 400.00 |
| Pine | | 226.00 | | | | | | | 226.00 |
| Pleasant | | 1,496.80 | | 469.80 | | | | | 1,966.60 |
| Pratt | | 555.50 | | | | | | | 555.50 |
| Prescott | | 2,265.30 | | 1174.10 | | | | | 3,439.40 |
| Prospect | | 1,260.00 | | | | | | | 1,260.00 |
| Salem | | 1,004.90 | | 132.50 | | | | | 1,137.40 |
| Sanborn | | 716.30 | | | | | | | 716.30 |
| School | | 688.25 | | | | | | | 688.25 |
| Smith Ave. | | | 475.00 | | | | | | 475.00 |
| Summer | | 1,229.40 | | | | | | | 1,229.40 |
| Sweetser | | 334.30 | | | | | | | 334.30 |
| Temple | 896.76 | | 432.89 | 661.39 | | | | | 1,991.04 |
| Union | | 303.60 | | | | | | | 303.60 |
| Village | | 1,015.60 | | | | 487.80 | | | 1,503.40 |
| Warren | | 715.00 | | | | | | | 715.00 |
| Washington | | 424.90 | | 246.80 | 312.90 | | 1574.30 | | 2,558.90 |
| Wenda | 300.00 | | | | | | | | 300.00 |
| Wilson | | | 471.40 | 333.10 | | | | | 804.50 |
| Woburn | 732.80 | 2,915.70 | | 917.40 | | | | | 4,565.90 |
| Tot. lengths | 2744.76 | 36,477.82 | 3773.44 | 6164.79 | 2870.60 | 487.80 | 1809.20 | 3758.10 | 58,086.51 |

LENGTH OF UNDERDRAINS IN STREETS

| Streets | Length of Underdrains in Streets | | | | Total Length | Total Length Sewers and Underdrains |
|-------------------|----------------------------------|-----------|----------|----------|--------------|-------------------------------------|
| | 5-inch | 6-inch | 8-inch | 10-inch | | |
| Arlington..... | | | | | | 399.80 |
| Ash..... | 237.00 | | | 258.80 | 495.80 | 1,577.50 |
| Bancroft..... | | | | | | 1,015.00 |
| Berkeley..... | | 456.00 | | | 456.00 | 1,712.10 |
| Brook..... | | 847.60 | | | 847.60 | 1,695.20 |
| Center..... | 620.60 | | | | 620.60 | 1,241.20 |
| Copeland..... | | | | | | 500.00 |
| Dudley..... | | | | | | 374.50 |
| Eaton..... | | 380.00 | 527.70 | | 907.70 | 1,815.40 |
| Elliott..... | | | | | | 279.00 |
| Fremont..... | | 456.50 | | | 456.50 | 193.00 |
| Green..... | 836.90 | 974.10 | | | 1,811.00 | 4,525.20 |
| Harnden..... | | | | | | 559.30 |
| Haven..... | | 588.20 | | | 588.20 | 2,341.00 |
| High..... | | 487.70 | 736.10 | | 1,223.80 | 3,297.90 |
| Hillcrest..... | | 450.40 | | | 450.40 | 1,221.20 |
| Howard..... | | 1,410.00 | | | 1,410.00 | 2,820.00 |
| Interceptors..... | | 2,937.00 | | | 2,937.00 | 5,874.00 |
| John..... | | 748.10 | | | 748.10 | 1,762.20 |
| King..... | | 175.00 | | | 175.00 | 690.00 |
| Kingston..... | 609.30 | 110.00 | | | 719.30 | 1,438.60 |
| Lincoln..... | | | 1,111.50 | | 1,111.50 | 2,223.00 |
| Linden..... | 290.40 | 444.90 | | | 735.30 | 1,470.60 |
| Lowell..... | | | | | | 813.10 |
| Main..... | | 1,246.10 | 955.50 | 234.90 | 2,436.50 | 4,873.00 |
| Maple..... | 189.20 | | | | 189.20 | 378.40 |
| Middle..... | | | | | | 313.60 |
| Middlesex..... | 254.00 | | | | 254.00 | 1,365.50 |
| Minot..... | 972.65 | 437.00 | | | 1,409.65 | 2,819.30 |
| Mt. Vernon..... | | 230.30 | | | 230.30 | 1,088.82 |
| Park..... | 567.30 | | 322.70 | | 830.00 | 1,660.00 |
| Parker..... | | | | | | 427.00 |
| Perkins..... | | | | | | 400.00 |
| Pire..... | 226.00 | | | | 226.00 | 452.00 |
| Pleasant..... | | | 469.80 | | 469.80 | 2,436.40 |
| Pratt..... | 252.20 | 303.30 | | | 555.50 | 1,111.00 |
| Prescott..... | 1,070.60 | 2,091.80 | | | 3,162.40 | 6,601.80 |
| Prospect..... | | | | | 886.00 | 2,146.00 |
| Salem..... | 543.00 | | 132.50 | | 675.50 | 1,812.90 |
| Sarborn..... | 200.00 | | | | 200.00 | 916.30 |
| School..... | | | | | | 688.25 |
| Summer..... | | | | | | 1,229.40 |
| Sweetser..... | 175.00 | | | | 175.00 | 509.30 |
| Temple..... | | 40.00 | | | 40.00 | 2,031.04 |
| Union..... | | | | | | 303.60 |
| Village..... | | 825.00 | | | 825.00 | 2,328.40 |
| Warren..... | 715.00 | | | | 715.00 | 1,430.00 |
| Washington..... | | 724.00 | 246.80 | 1,163.20 | 2,134.00 | 4,692.90 |
| Wenda..... | | | | | | 300.00 |
| Wilson..... | | | 804.50 | | 804.50 | 1,609.00 |
| Woburn..... | 1,196.00 | | 917.40 | | 2,113.40 | 6,679.30 |
| Total Lengths... | 9,781.15 | 16,363.00 | 6,224.50 | 1,656.90 | 34,025.55 | 91,162.06 |

PARK DEPARTMENT

Gentlemen:

The following is the yearly report of the Park Department:

| | | |
|-----------------------------------|-------------|-------------|
| General Appropriation | | \$ 6,000.00 |
| Expended: | | |
| Memorial Park | | |
| Pay Roll, Care of Park | \$ 1,075.10 | |
| Supervised Play | 652.00 | |
| Bills | 745.57 | |
| Tennis Courts | 1,075.00 | |
| | | |
| Total | | \$ 3,547.67 |
| Common and Main Street Park | | |
| Pay Roll | \$ 164.38 | |
| Bills | 155.59 | |
| | | |
| Total | | \$ 319.97 |
| Leach Park | | |
| Pay Roll | \$ 57.20 | |
| | | |
| Total | | \$ 57.20 |
| Ball Park | | |
| Pay Roll | \$ 353.47 | |
| Bills | 361.69 | |
| New Bleachers | 1,359.00 | |
| | | |
| Total | | \$ 2,074.16 |
| Total Expenditures | | \$ 5,999.00 |
| Balance Unexpended | | \$ 1.00 |
| Birch Meadow Appropriations | | \$ 2,000.00 |
| Bal. Fwd. 1930 | | 477.89 |
| | | |
| Total | | \$ 2,477.89 |
| Expended: | | |
| Pay Roll | \$ 673.66 | |
| Bills | 1,707.36 | |
| | | |
| Total | | \$ 2,381.02 |
| Balance Unexpended | | \$ 96.87 |

PARKS

Birch Meadow

The town was very fortunate in being able to secure filling from the North Main Street construction job to fill an area of 6,250 sq. yds. This park has proved very popular this year. Having now two hard surface tennis courts and also a ball field for the children to play in, it has been regularly attended by players from all sections of the town. Development of this valuable recreation ground should be continued as rapidly as possible.

Memorial Park

Memorial Park has been used more than ever this year and has provided a safe place for children of all ages to play under the competent supervision of experienced instructors, who are always on the playground. A new Bedway slide was erected which proved very popular with the younger children.

With the construction of Salem Street we were able to fill an area near the Main St. entrance to build two hard surfaced tennis courts which were in constant use the entire season.

In the fall a crew of men worked one week cutting off the high places in the skating pond. This meant a much larger and better area for this winter's sports. This section has been well lighted by the Municipal Light Department. A section is blocked off for hockey games as usual. During the holiday season this pond was enjoyed by young and old.

I recommend that a cement wall be built from Harrison Street easterly 200 ft. with proper overflow, the top of the wall to be so finished that children can use same as seat to change their shoes etc.

The summer activities were again under the supervision and direction of the Reading Woman's Club. The personal care given to this work by their committee made it another successful season and the Board of Public Works wishes to express its appreciation of their efforts.

Leach Park was kept mowed, trees and shrubs were trimmed, loam was used in several low places, keeping up its attractive appearance.

The Common was seeded early in the spring, as was the tree lawn past the Municipal Building on Lowell Street. During the holiday season the parks and common were illuminated by the Municipal Light Department. Because of the removal of the old wooden poles and the substitution of the new cement ones, a new and unique system was carried out this year which excited much favorable comment from the public in general.

On the easterly side of the Washington St. ball field where the ground was very rough it was plowed, harrowed and seeded early in the spring, and the base-ball diamond put in shape for school base ball activities. Shrubs were set out at the Washington Street entrance, presenting a very satisfactory appearance. To accommodate spectators at the numerous games held at the field this year, portable circular wooden bleachers capable of seating 1,026 persons were purchased and installed.

In the fall flood lights were erected by the Municipal Light Department to permit the playing of night foot ball games by the Reading Town Team. A series of games were played at night and were well attended, sport followers from all sections being attracted by the novelty of the game.

REPORT OF THE READING PLAYGROUND COMMITTEE

The thirteenth season of the Reading Playground opened June 29th at 2 P. M. with informal exercises.

Mrs. Mollie Sweetser brought greetings from the Woman's Club. Her talk to the children was greatly enjoyed by all. The donors of the Park were invited to be present.

Ice cream was served free to about 400 children. The program was outlined and games played until 5 P. M., the usual closing time.

Miss Madeline Lyons, Supervisor, a graduate of Posse Nisson was assistant supervisor last year and thoroughly familiar with all branches of the work. The program this year went particularly well under her direction. She provided work and play for every child present. There was an average attendance of 150 each day.

There were large classes in reed work and some very nice articles were exhibited at the closing.

Coping saw work drew large numbers of boys and girls. This class is growing more popular each year. Door stops, tooth brush holders, book-ends and many other articles were fashioned and painted under the direction of Miss Briggs.

Tennis was enjoyed by children of all ages. The new courts were in constant use. The younger children were taught paddle tennis. Clock golf, checkers, boxing, croquet, volley ball and kick ball kept many occupied.

Dolls were dressed and wardrobes made under the direction of Miss Cummings. These were presented to the children at the Fathers and Mothers Club.

The baseball team played at other playgrounds and had games in Reading, also. A strong substantial slide was purchased for the younger children.

Closing days were very interesting to all. An out-door safety play was given in a very fine manner. Some very fine work was presented by the dancing class under Miss Cummings.

Friday was given to tennis finals and track events. Certificates as reward of merit, prizes and letters were awarded. Ice cream was given to about 500 children.

The Massachusetts Safety Council provided us with safety material and "Buddy Buttons". A Junior patrol was organized.

The Committee wishes to thank the Board of Public Works for its helpfulness at all times. Thanks also to the Reading Police for co-operation.

The staff and committee appreciated especially the cheerful and willing co-operation of Mr. Thompson, the caretaker.

MRS. AGNES MERCER,

MRS. HELEN NICHOLS,

MRS. IRENE TALBOT

MRS. MARIE DAY, Chairman.

To the Board of Public Works:

Gentlemen:

The Playground Committee would recommend that the sum of one thousand dollars (\$1,000.00) be appropriated by the Town of Reading for the work assigned to it.

I would suggest that the sum be not definitely divided for salaries and expenses.

MRS. MARIE DAY, Chairman

REPORT OF EXECUTIVE OFFICE OF THE BOARD OF PUBLIC WORKS

To the Board of Public Works:

Gentlemen:

The following is the yearly report of the executive office:

| | |
|-----------------------------------|--------------------|
| Appropriation | \$ 6,000.00 |
| Expended: | |
| Salaries, and Misc. Supplies..... | \$ 5,960.45 |
| Total | \$ 5,960.45 |
| Balance Unexpended | \$ 39.55 |

The following table shows the expenditures made this past year in all departments, the payroll of each, and the entire expenditures of the Board of Public Works.

| | B. P. W. | Water | Highway | Sewer | Park | Totals |
|---------------|-----------------|-------------------|------------------|-----------------|-----------------|-------------------|
| Pay Roll | 4,992.13 | 28,687.51 | 40,119.70 | 5,455.92 | 2,975.81 | 82,231.07 |
| Bills | 968.32 | 73,739.14 | 47,330.48 | 3,434.75 | 5,404.21 | 130,876.90 |
| Totals | 5,960.45 | 102,426.65 | 87,450.18 | 8,890.67 | 8,380.02 | 213,107.97 |

In closing this report the Superintendent wishes to thank the members of the Board for their many helpful suggestions and kindness extended to him during the year, and also to express his appreciation of the co-operation and interest of all those in any way associated with him in carrying on the work of the Department, and to acknowledge the helpful suggestions and assistance which he has received from other department heads in the Town.

ALEXANDER BIRNIE
Superintendent

REPORT OF THE PLANNING BOARD

To the Citizens of Reading:

The outstanding activity of the Planning Board for the year 1931 has been its co-operation with the Planning Boards of Wakefield and Stoneham with the object of studying the problems common to the three towns. The initial result of this co-operation has been the study of a new traffic route from Boston to the north the purpose of which is to relieve the traffic congestion in Reading, Stoneham and Wakefield Squares. A special committee appointed by the combined Planning Boards has prepared the following report to be submitted to the Metropolitan Planning Division of the Metropolitan District Commission for further action.

1. Report of Special Committee

Part 2

The town of Reading and the town of Stoneham have a major traffic problem due to the completion of a main State traffic artery through their business centers and the ever increasing through-traffic using that artery. Wakefield has a somewhat similar problem with heavy through-traffic through its business center and along its residential Lakeside and has refrained from diverting it to North avenue because to do so, would send it through a residential part of Reading and Reading Square.

Thus the three towns have a traffic problem in common and should solve it in co-operation.

Through traffic is of little or no value to the towns through which it passes, but does seriously disrupt local traffic, injure local business and create a hazard in the free use of local streets by the townspeople. For this same reason the through traffic is correspondingly inconvenienced and the time saved in the open stretches of state highways built at great expense is lost due to the confusion with local traffic and street congestion in every town through which it passes.

The Committee endorses the principle, now generally accepted by traffic and town planning experts, and acceded to more and more by the general public, that through-traffic should be routed around and not through the thickly built-up parts of the towns along its path; both for the sake of the through-traffic and of the towns.

The Committee likewise feels that the citizens of a town should have the first rights to the use of their own street system. Further it feels that towns should have a large measure of influence in the routing of the through-traffic in so far as it affects their community life.

The By-pass which is eventually built for through-traffic in Reading, Stoneham and Wakefield should be planned for the distant future, as well as for the immediate future.

It should be located so as to cause the minimum of damage to present taxable values, hence should pass through low cost, unused land, as far as possible, and thus stimulate the development of such land and add to taxable values. It should be so located that the least interference will be caused with the local use of town streets. Such a location, while probably requiring larger land takings in area, will be little, if any more costly, due to the low unit-price of undeveloped, as compared with developed areas.

The reasons why this Committee disapproves of the short local by-passes which are contemplated by the Department of Public Works for Reading and Stoneham are as follows :

1. They are designed for the solution of immediate troubles and are not large enough in vision to answer the needs for any considerable time in the future.

2. If they are built, they will prevent for generations the wiser solution in the form of a major by-pass.

3. They pass generally along existing residential streets which will require widening and hence crowding close to existing houses thus seriously lowering present taxable values.

4. Due to this damage to existing homes a serious opposition will naturally and properly be aroused. It is a fallacy to think that betterments can, in fairness, be assessed for a through-traffic artery in a residential district.

5. They will be so close to the present main highway (just one block away) and pass so many cross streets that the result will be, in each town, two main arteries north and south instead of one and consequently nearly twice the inconvenience to local traffic.

6. Regarding the local Stoneham by-pass, the cost will be great due to several houses, the gasometer and the laundry which will need removal. It also will cause a serious loss to the town in crossing a vacant area which the town is now developing as a playground, it being the only available, centrally located site.

The Committee submits to you for consideration a map which is a part of this report. Shown thereon, in a heavy black dotted line, is the route for a proposed traffic route which meets the purposes and has the desirable characteristics for diverting through-traffic around Reading, Stoneham and Wakefield. In heavy dash lines are shown the main existing through highways which co-ordinate with the proposed route. The principal feature to note about the proposed route are as follows :

1. It is not a series of small local by-passes, but is a single major by-pass, commencing at Spot Pond, South of Stoneham, passing north on the east side and roughly parallel to Main Street.

2. It avoids entirely the built up sections of the three towns, passing through unused waste land of low unit cost.

3. It again joins the main highway at Forest Street, north of Reading Square and has a branch extending west to the main Highway to Lowell.

4. It involves one railroad overpass and possibly a traffic circle at its northern end and may at some time, require an overpass as it crosses Albion Street in Wakefield.

5. The route is planned so that it can be built in three stages.

(A) Reading's immediate problem can be solved independently by first building the northern end of the route from Cross Street to Forest Street and including the railroad overpass. When this first part of the project is completed, all North and South bound through-traffic will entirely avoid business and residential parts of Reading and leave the local street system, including the present South Main Street crossing, for local use. The Committee feels that when through-traffic is thus diverted, the hazard at the South Main street crossing will be so reduced that the inconvenience to be caused by closing it would not be justified.

As soon as this part is built it will be feasible for Wakefield to re-build North avenue and divert through it and hence over the Reading route to points north, all heavy traffic from Melrose and Malden which now passes through Wakefield Square and along the Residential Lakeside.

This first part of the proposed route will also take traffic from Salem and Lynn coming along Lowell street in Wakefield around Reading Square for points north.

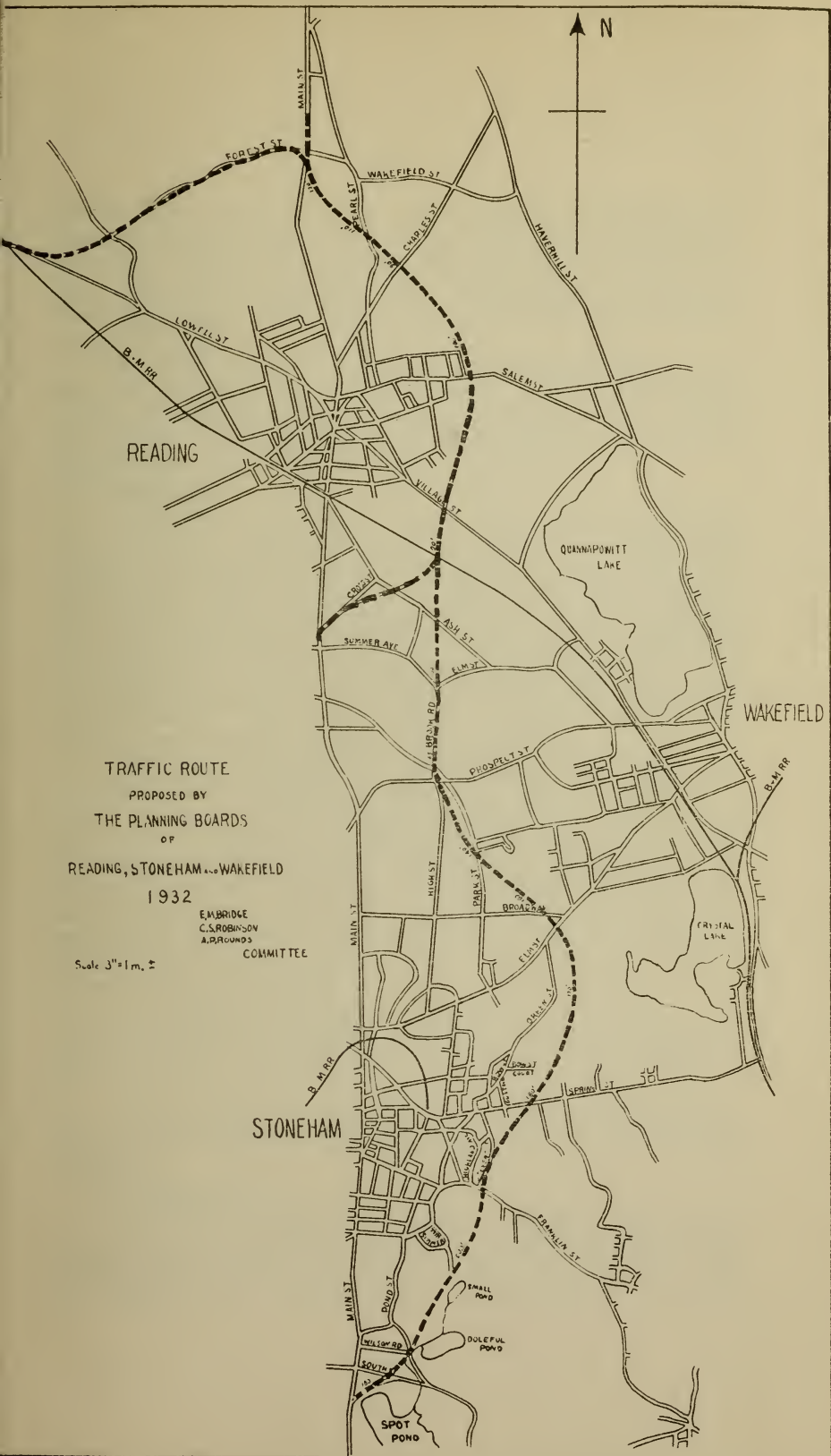
(B) When Stoneham's problem becomes more acute the Second Section of the proposed route can be built south to Spot Pond.

(C) Finally the third section of the proposed route from Main and Forest streets can be built west to the Lowell Highway, thus diverting all traffic to and from Lowell around Reading.

Thus it will be seen that this proposed traffic route, when complete will make it possible for all through-traffic from the north, south, east and west to pass by all three towns with increased speed and safety for itself and without interfering with local traffic.

Recommendations

The Committee recommends that the Planning Boards of Reading, Stoneham and Wakefield endorse the proposed traffic route herein described and shown on the accompanying map. The committee further recommends that such endorsement together with a full de-



scription of the project, together with a petition be prepared by a committee of three representing the three boards and presented by it, to the Metropolitan Division of Planning asking that the said Division prepare plans of the proposed route and prepare and present to the Legislature, a bill authorizing the land takings and construction of the project.

The Committee also recommends that the three Planning Boards commence concerted action to make citizens of their respective towns and legislative representatives aware of the project and its benefits and attempt, by proper publicity, to enlist their support of the above mentioned bill, when it comes before the legislature.

2. Reading Square

The traffic in Reading Square is perhaps the most pressing of the problems confronting the town. The Board has taken the attitude that pedestrians and local traffic should be given first consideration and that through traffic should be treated accordingly. The several schemes for expediting through-traffic through the Square, such as the construction of a suitable traffic circle, or rearranging the streets so that traffic may be more easily controlled, have not given sufficient thought to the pedestrians. The traffic circle, which is easily the best in so far as expediting traffic is concerned, does not solve the problem in respect to the pedestrian.

Under these conditions, the Board feels that the only permanent solution to the traffic problem in the Square consists in reducing the amount of through-traffic by furnishing a quicker route away from the center of the town and at the same time increasing the difficulty of flow through the Square by the installation of manually controlled traffic lights. For this reason, the Board has been urging the construction of a suitable by-pass for north-south traffic which will avoid the center of the town. Its recommendation in this regard has been incorporated in the report of the Special Committee given above. (1.)

The Board has been asked by the Finance Committee to cooperate with them and the Board of Public Works in their discussion of the repaving of Reading Square. This it has been very glad to do.

The Board feels that the matter of a traffic circle in the Square could well be in abeyance until the results of the proposed by-passes are shown

3. North Main Street

At the Town meeting of December 1, 1930, the Board was instructed to hear objections to the proposed re-zoning of certain areas on North Main Street. A hearing was held for this purpose and the objections and recommendations were presented in the follow-

ing report which was presented to the Town at the adjourned Town Meeting on March 9, 1931.

Reading, Mass.
March 2, 1931.

To the Citizens of the Town of Reading:

The warrant of the special town meeting held in Security Hall on Monday evening, December 1, 1930, contained the following article:

Article 8: To see if the Town will vote to re-zone the area bounded as follows: Beginning approximately 588.02 feet distant from the northeasterly corner of Main and Forest Streets and at the northeasterly corner of Main Street and a proposed street called Willard Road; thence running northeasterly along the easterly line of Main Street to Pearl Street; thence south easterly along the westerly line of Pearl Street to the said proposed street called Willard Road, and thence westerly along the northerly line of Willard Road to the point of beginning, so that the entire area described above shall be changed from a multiple resident district and a single residence district to a business district or what it will do in relation thereto.

(Signed) M. E. BRANDE and others.

Prior to this date, there was filed with the Town Clerk a petition signed by 122 objectors opposing such a modification of the Zoning By-laws; the objectors having this right under section 30, Chapter 39, Acts of 1929 of the General Laws, relative to the repeal or modification of Zoning By-laws in Towns, as follows:—

CHAPTER 39 OF THE GENERAL LAWS—SECTION 30

“No ordinance or by-law enacted under section twenty-five shall be repealed or modified except after reasonable notice of the proposed repeal or modification and an opportunity to the objectors to be heard thereon, and, in a town, notification as provided by law of a town meeting duly called in pursuance of a warrant warning that such proposed repeal or modification is to be acted upon thereat shall be sufficient notice for the purpose thereof If in a town any person shall, prior to the day named in the town warrant for the town meeting at which such proposed repeal or modification is to be acted upon, file with the town clerk his objections thereto in writing, together with his name and address, the town clerk shall give notice of such fact to the town meeting which shall not act on such proposed repeal or modification until it has referred the objections to a committee thereof to hear the objecting party and report to said meeting or an adjournment thereof or has referred the same to the town Planning Board for such purpose

and has received a report made in pursuance of such reference after giving the objector an opportunity to be heard. If no objections are filed as aforesaid the meeting may consider and act upon the proposed repeal or modification without further notice. In no case shall such a by-law be repealed or modified except by a two-thirds vote of a town meeting."

Approved Feb 15, 1929.

The above law states that "any person shall file with the town clerk his objections thereto in writing." The 122 signers did not enter any written objections, but merely signed the statement that they objected to modification of the present Zoning ordinance or the re-zoning of the area mentioned in above Article 8.

The town clerk accepted the objectors' petition as presented and gave notice of such fact to the town meeting causing no action to be taken on Article 8 other than to refer the matter as provided by the law to the Planning Board.

Under date of January 15, 1931, this board sent to each of the 122 objectors the following letter:

"Pursuant to vote passed at the recent special Town Meeting, this Board will hear your objections to the proposed modification of the Zoning Law as it applies to the easterly side of North Main Street changing the area affected from a Multiple Residence District and Single Residence District to a Business District, on Friday, January 23, 1931 at Room 19, Municipal Building, Reading, at 8.30 o'clock in the evening. You are urgently requested to be present as the Board will dispose of your objections at the time and place designated"

In order to have a clear understanding of both sides of the question, the Planning Board arranged a Public Hearing for February 6, 1931 and had this hearing advertised in the Reading Chronicle issues of January 23rd. and 30th. A notice of this hearing was sent to Mrs. Blanche Keene Regan, the owner of a part of the property affected by Article 8, and the person most interested in having this change in the By-laws.

At the hearing of January 23 there were twenty-eight objectors present, of which thirteen addressed the chair and were heard. At the public hearing of February 6, approximately thirty-five citizens were present, representing objectors and petitioners. At this hearing there were heard seven objectors and 4 persons in favor of the proposed change in the Zoning By-laws governing the area in question. At both of these hearings expressions were voiced not only by citizens living in or in close proximity to the area affected, but of the town in general.

Following these hearings, this Board gave careful consideration to the whole matter and weighed the arguments of both the objectors to and petitioners for the proposed change of the area mentioned and has unanimously voted to recommend to the citizens that they retain the present law as it applies to the area in question. The vote of the Board was based on the following considerations:

1st. The citizens of Reading, as a residential town, should hold the interest of the home-owner as paramount.

2nd. There is the implied promise of the Zoning By-laws of protection to the man who has built and improved property in a particular section, either before or after the acceptance of the By-laws by the Townspeople.

3rd. The town is not responsible for promises or implied promises that the Zoning Laws can be changed as they affect particular properties.

4th. North and South Main Streets, the Railroad Station and the Square are the show-windows of Reading to the passing traveler and home-seeker.

5th. There is no immediate or actual need of more business establishments in the North Main Street section.

6th. The contention of personal right to utilize one's property as he sees fit in a zoned town, is unsound and the application of this principle would be injurious not only to neighboring homes, but to the town in general.

7th. Numerous roadside business enterprises on a through-traffic artery, within close proximity to a town's business center, tend to impede and endanger traffic, both approaching and in the town's center.

8th. Modification in the Zoning Law to suit the individual property owner lead toward the ultimate break-down of zoning in general.

4. Public Dumps and Rubbish Collection

The public collection of rubbish and ashes and the allied problem of dumps has occupied a considerable part of the Board's time. The methods employed in a number of other towns have been investigated with the view toward improving the local situation. While no definite action has been taken, it is felt that the only way that the unsightly private and unauthorized public dumps which now are found along so many of our highways can be eliminated is either by furnishing public dumps for each of the several sections of the town, or by the public collection of rubbish and ashes. It has been found that public dumps will be abused unless constantly supervised.

5. Aerial Survey

Realizing the need of an up-to-date and accurate map of the Town for planning purposes, the Board attempted to obtain the co-

operation of the other boards of the Town in order to obtain sufficient funds to have an aerial map prepared. It was not found possible to obtain these funds, however, this year. It is hoped that it will be possible to have this much needed map prepared in the near future. It is the belief of the Board that such a map would prove of the greatest benefit to the other boards of the Town.

6. Parks

The Board has had the privilege of co-operating with the Special Park Committee in regard to the Birch Meadow project

It is thoroughly in sympathy with the Committee's plans for the playground and hopes that they will be advanced as fast as funds can be found for them.

7. Key Plan.

Realizing that the primary function of the Planning Board is the long distance planning for the future development of the Town, the Board hopes to be able to undertake the preparation of a key plan for future growth and expansion, so that real estate development may be able to follow a logical sequence and lay-out. Such a key plan, under our present laws, can be offered as a suggestion only, but it is hoped that it will be possible to prepare a plan which will be attractive to all. An aerial map of the Town would be of particular value for this purpose.

The Planning Board wishes to express its appreciation to the Board of Selectmen for the room in the Municipal Building which it now occupies and to the several Boards of the Town for the opportunities which they have offered it during the past year to express its opinion on Town problems and for such advice as it has been able to give. The work and opportunities of the Board have increased to such an extent that it has been found advisable to change from the former monthly meetings to weekly meetings on Friday evenings.

THE PLANNING BOARD

GEORGE W. G. POOLE,

Chairman.

February 1, 1932

REPORT OF VISITOR

I herewith submit my report for the year 1931.

It seems almost unnecessary to state that this has been the hardest year ever experienced by the Visitor and the Board of Public Wel-

fare. This has been the case in every city and town, as aid has necessarily to be increased when a large proportion of the wage-earners are out of work.

During the year the number of families aided was 109; 175 adults and 273 children, making a total of 448 persons aided. This is an increase of 179 persons aided more than last year. Forty-four families who had never before applied for aid were obliged to do so this year. Many of them needed help during January, February and March, and the cases were closed as soon as the men could get work in the Spring.

The Visitor recorded 772 calls made in homes, an increase of almost a hundred over last year, not including visits at hospitals. Each year more time is given to grocery orders, and milk, coal and other bills have been approved as in previous years.

The help of the Visiting Nurse is much appreciated and is of great assistance, as she visits many of the families who are obliged to ask for aid. It is always well to look at problems from different viewpoints, and the health of the children should always be considered. The School Nurse, Attendance Officer and Good Health Committee also co-operate in assisting with problems of children. We wish to extend thanks to the members of the Visiting Nurse Association and friends who helped in packing the Thanksgiving baskets, the contents of which were largely given by the school children.

We wish also to extend thanks to the many organizations and kind friends who gave Christmas dinners, clothing, toys, and much Christmas cheer to many families. The generosity of many people who have realized the need of others this year and have given money and clothing more than in former years is a great help to all who are trying to aid those in need.

The Visitor wishes to express her thanks to the members of the Board for their interest and help at all times and for their long hours of study of trying problems. A full understanding of every family concerned is very important and takes a great deal of time, which is willingly given without remuneration. Mr. Bent, the clerk of the Board, is also willing to help at all times, and we are grateful for his assistance.

Respectfully submitted,

HELEN A. BROWN, Visitor.

REPORT OF PUBLIC LIBRARY

The Trustees of the Reading Public Library submit the following report for the year ended December 31, 1931.

Organization of the Board

The Board organized for the year by the election of Mr. Mansfield as Chairman and Mr. Keneely as Secretary. Standing Committees were appointed as follows:

On Accounts: The Board of Trustees.

On Books: Mr. Mansfield, Mrs. Lucas, Mrs. Weeks.

On Building and Grounds: Messrs Keneely, Morton and Barclay.

On Work with Children: Mrs. Weeks, Mrs. Lucas and Mr. Keneely.

Expenses of the Library

The condensed financial statement follows:

Appropriation, direct tax, 1931.

| | |
|--------------------|--------------------|
| Salaries | \$ 4,800.00 |
| Maintenance | 3,200.00 |
| Total | \$ 8,000.00 |

Expended

| | |
|---|--------------------|
| Salaries: Librarian, Assistants and Janitor | \$ 4,798.67 |
| Books and periodicals, including rebinding | 2,253.33 |
| Printing, stationery, etc. | 92.00 |
| Fuel, light, water and sewer | 236.04 |
| Repairs and furnishings | 380.99 |
| Telephone | 48.66 |
| All other expenses | 60.67 |
| Total | \$ 7,920.36 |

Balance unexpended and returned to revenue:

| | |
|----------------------|--------------------|
| On Salaries | 1.33 |
| On Maintenance | 78.31 |
| Total | \$ 8,000.00 |

Receipts

| | |
|---|------------------|
| Fines Collected | \$481.93 |
| Stolen Nov. and Dec. (reported to police) | 6.25 |
| Total | \$ 475.68 |

| | | |
|---|-----|-----------|
| Paid to Town Treasurer | | \$ 475.68 |
| Balance on Hand Dec. 31, 1931 | | 0.00 |
| Statistics | | |
| Volumes in the library Dec. 31, 1930 | | 16,305 |
| Volumes bought (including duplicates and replacements): | | |
| Adult fiction | 456 | |
| Adult non-fiction | 253 | 709 |
| Juvenile fiction | 203 | |
| Juvenile non-fiction | 79 | 282 |
| Reference | 12 | 1,003 |
| Received by gift, Mass. | 15 | |
| Received by gift, others | 98 | 113 |
| | | 17,421 |
| Withdrawn during year | | 511 |
| Total number of volumes Dec. 31, 1931 | | 16,910 |
| Circulation for home use, adult | | 49,587 |
| Circulation for home use juvenile | | 20,956 |
| Total circulation | | 70,543 |
| Increase over previous year (about 15%) | | 9,261 |
| Largest monthly circulation, November | | 6,801 |
| Smallest monthly circulation, July | | 5,116 |
| New borrowers registered, adult | | 364 |
| New borrowers registered, juvenile | | 280 |
| Total | | 644 |
| Number of days on which the library was open | | 302 |
| Average daily circulation, adult | | 160 |
| Average daily circulation, juvenile | | 69 |
| Volumes deposited in the schools | | 310 |

The total circulation of books for home use showed a total increase over 1930 of 9,261 volumes, about 15 per cent. The adult circulation increased 18.7 per cent and the juvenile circulation 7.4 per cent.

The following table gives data relative to the Library for the last five years:

| Years | | | No of | | Total |
|-------|------------|-------------|-----------|---------|------------|
| | Population | Circulation | Days | Volumes | |
| | April 1st. | Home Use | Lib. Open | in Lib. | Exp'diture |
| 1927 | | 52,768 | 291 | 14,339 | \$7,188.58 |
| 1928 | | 56,646 | 301 | 14,866 | 7,433.99 |
| 1929 | | 55,822 | 301 | 15,586 | 7,396.94 |
| 1930 | 9,747 | 61,282 | 301 | 16,305 | 7,786.24 |
| 1931 | | 70,543 | 302 | 16,710 | 7,920.36 |

The cost per volume circulated in 1931 was 11.2 cents and 1.5 cents per volume less than in 1930. The circulation per capita in 1931 was 7, and the cost per capita about 79 cents.

The marked increase in the circulation is undoubtedly due in considerable measure to the business depression. The occasional reader, now with more leisure, has taken advantage of his opportunities and used the facilities offered by the Library. Decreased work in many lines has thus created increased work for the Library Staff.

The report of the Librarian follows:

It has been said that a library's circulation was an incomplete record of books really read since one book borrowed may be merely glanced at while another is read by several people, but each counts one on the circulation record. Nevertheless, even if not an exact record of use, the circulation is the only index we have of the use of the library. It is difficult to keep any definite record of the use of books and magazines in the library building and the numerous reference helps given; but when the circulation count exceeds the previous year by more than nine thousand, a gain of some fifteen per cent with an average daily circulation of two hundred and twenty-nine as compared with two hundred and four in 1930, we are sure the library was used much more in 1931 than in 1930. Another record of increasing use is the fact that borrowers cards were issued to six hundred and forty-four persons who had not been using the library before as compared with five hundred and thirty-three new borrowers registered in 1930. An unfortunate result of a larger circulation is the larger number of books withdrawn. Of these three hundred and sixty-five were worn out, six were burned on account of scarlet fever and one hundred and forty were lost. With the open shelf system it is impossible to prevent some books disappearing from the shelves and unless they are books in use the loss may not be noted for some time. So the fact that Harold B. Clark who was arrested for theft of library books had either visited Reading or sent one of his friends was not known until five volumes found in his possession were returned to the Reading Library by the Special Investigator of the New York Public Library.

We have borrowed during the year from Wakefield, ten volumes; from Lynn, three; Watertown, one; and Boston, one volume.

In May in response to an appeal for books for the Merchant Marine, the Librarian packed and forwarded to the Boston Public Library thirty-five books donated for that purpose.

There has been displayed in the exhibition case in:

January: Old paper dolls and paper covered books.

February: Colored fashion plates from Godey's and Graham's fashion books, also for one week forty dolls in costume loaned by the Reading Woman's Club Committee of Inter-racial Unity in America.

March: Old town reports from the library collection.

April: Souvenirs of Italy.

May: Hawaiian souvenirs and pictures.

June: Insignia and uniform buttons of the Revolution, Civil War, Spanish War and World War.

July: Old books from the library collection.

August: Facsimile of the Times for June 22, 1815, just after the Battle of Waterloo.

September: Austrian paper money.

October: Stereoscope pictures of old Reading.

November: Old books from library collection.

December: Old playing cards and books.

On September 22, the Librarian gave a talk to the Sophomore class at the High School on classification and reference books and use of the Library.

Some years ago a stereoscope and some Bible pictures were given the library. They were loaned at times to Sunday School teachers, but not until this year were they used in the library. They were so popular in the Children's Room that at the suggestion of the Children's Librarian an appeal was put in the Chronicle asking anyone who had a stereoscope, which they no longer used, to give it to the library. In response the library received stereoscopes and pictures from Mr. A. P. Ives, Miss Florence King, Mrs. Edward Dewey and Miss Kenney and pictures from Miss Spinney and Mrs. Packer. Among the pictures were a few views of old Reading which were exhibited upstairs, and then put away to keep as they were of historical interest.

In November a large globe was added to the library equipment. It is fortunate that the surface is washable as it has been so popular that Boston became quite darkened by smutty fingers.

In December a change was made in library hours on Saturdays, keeping open from two to nine without closing for a supper hour. This will be a convenience to borrowers and tend to lessen the pressure at the busiest time of the week, on Saturday evenings.

Thanks are due to Mrs. Timlin who kindly gave us another lampshade when one she gave us a few years ago got damaged and to all who have donated books and loaned articles for exhibition in the library.

Maintenance

A new electric clock, with large dial, has been installed. Additional lights were placed for the new double stack at the north end of the room, and a signal system between the Children's room and the Main room installed.

School Reading

Reference has been made in our reports for several years relative to the extent of the co-operation of the Library personnel with the Schools. This supervised reading is most popular. On June 12, 1931, the Chairman of the Trustees gave State Certificates for reading to fifty-six pupils of the Highland School. Of this number, eight received certificates for reading twenty books each.

We again thank the teachers for their assistance in furthering this co-operative work.

Budget for 1932

In accordance with the requirements of the General Laws, Chapter 41, Section 59, the Board of Trustees of the Reading Public Library submit the following detailed estimate for the amounts deemed necessary for the proper maintenance of the Public Library for the fiscal year 1932.

| | |
|--|-----------|
| Fuel, Light, Water, Sewer charge | \$ 450.00 |
| Printing and Supplies | 150.00 |
| Books, Periodicals, Binding, etc. | 1,900.00 |
| Maintenance and Repairs | 500.00 |
| Miscellaneous Expenditures | 100.00 |

| | |
|-------------------------|-------------|
| Total Maintenance | \$ 3,100.00 |
| Salaries | \$ 4,900.00 |

| | |
|--|-------------|
| Total Appropriation Requested | \$ 8,000.00 |
| as against an appropriation in 1931 of | \$ 8,000.00 |

The total amount requested, \$8,000.00, is the same as appropriated for the year 1931, with \$100.00 added to the Salary Budget and \$100.00 deducted from the Maintenance Budget.

The usage of the Library has increased about 15 per cent over 1930. The Library hours have been increased two hours per week, the Library now being open Saturday from 2 P. M. continuously. The difference in the Salary Budget is to cover assistants for this increased service.

No increases in salaries are requested or contemplated.

It is estimated that an income of at least \$400.00 will be received during 1932 from the "Fine Account."

Miss Bertha L. Brown, Librarian, Miss Grace J. Abbott, Assistant Librarian, and Miss Rebecca Turner in charge of the Children's Room have rendered their usual faithful and efficient service and the Trustees desire to record herewith their appreciation of those services.

The work of the assistants was also praiseworthy.

Two vacancies in the Board of Trustees are to be filled at the Town Meeting, the terms of Mrs. Ida C. Lucas and Harry J. Barclay expiring.

ARTHUR N. MANSFIELD, Chairman
RALPH S. KENEELY, Secretary
JESSE W. MORTON,
HARRY J. BARCLAY,
IDA C. LUCAS,
JENNIE F. WEEKS,

Adopted as the report of the Trustees.

REPORT OF THE BOARD OF ASSESSORS

To the Citizens of Reading:

We herewith submit our report on work under our jurisdiction during the year 1931:

Valuation of Taxable Real Estate:

| | |
|---------------------------------|------------------|
| Buildings, excluding land | \$ 11,017,325.00 |
| Land, excluding buildings | 4,020,300.00 |

| | |
|-------------|------------------|
| Total | \$ 15,037,625.00 |
|-------------|------------------|

| | |
|--|--------------|
| Valuation of Taxable Personal Estate | 1,151,824.00 |
|--|--------------|

Total Taxable Real and Personal Estate April 1,
1931

\$ 16,189,449.00

| | |
|-----------------------------------|---------------|
| Building increase over 1930 | \$ 335,850.00 |
|-----------------------------------|---------------|

| | |
|-------------------------------|-----------|
| Land increase over 1930 | 35,825.00 |
|-------------------------------|-----------|

| | |
|-------------------------------------|---------------|
| Total increase on Real Estate | \$ 371,675.00 |
|-------------------------------------|---------------|

| | |
|---|-----------|
| Decrease on Personal Estate in 1931 | 12,651.00 |
|---|-----------|

| | |
|--------------------------------------|---------------|
| Total gain on taxable property | \$ 359,024.00 |
|--------------------------------------|---------------|

| | |
|--|---------------|
| Valuation of excise tax for 1931 | \$ 937,150.00 |
|--|---------------|

| | |
|--------------------------------------|---------------|
| Decrease on excise tax in 1931 | \$ 123,940.00 |
|--------------------------------------|---------------|

| | |
|--------------------------|---------------|
| Tax on Real Estate | \$ 487,219.08 |
|--------------------------|---------------|

| | |
|------------------------------|-----------|
| Tax on Personal Estate | 37,319.17 |
|------------------------------|-----------|

| | |
|---------------------|-----------|
| Tax on Excise | 23,056.19 |
|---------------------|-----------|

| | |
|---|----------|
| Tax on Polls | 6,008.00 |
| Tax on Old Age Assistance | 3,019.00 |
| Tax on Real Estate for Moth | 899 00 |
| Tax on Real Estate for Sewer | 2,457.48 |
| Tax on Real Estate for Sidewalk | 544.08 |
| Tax on Real Estate for Curbing | 118.92 |
| Additional Polls | 18.00 |
| Additional Old Age Assistance Tax | 17.00 |

| | |
|---|---------------|
| Total commitment for 1931 | \$ 560,675.92 |
| State Tax, 1931 | \$ 15,900.00 |
| State Highway Tax, 1931 | 355.99 |
| State Parks | 224.06 |
| Metropolitan Sewerage Tax, 1931 | 7,962.52 |
| Municipal Lighting Tax, 1931 | 93.45 |
| Special State Tax, Old Age Assistance | 3,019.00 |
| County Tax, 1931 | 26,413.07 |
| County Tax Hospital, 1931 | 2,723.89 |

| | |
|--|--------------|
| Total State and County Tax, 1931 | \$ 56,691.98 |
|--|--------------|

| | |
|--|-----------|
| Total State and County Tax, 1930 | 49,965.76 |
|--|-----------|

| | |
|---|---------------|
| Increase in 1931 | \$ 6,726.22 |
| Amount appropriated for Town Purposes | \$ 639,288.00 |
| Amount to be paid for State Taxes | 56,691.98 |
| Amount of Overlay | 2,585.27 |

| | |
|-------------------------------------|---------------|
| Total assessments, 1931 | \$ 698,565.25 |
| Less estimated receipts | \$ 115,000.00 |
| Less Excise Tax | 25,000.00 |
| Less Free Cash | 25,000.00 |
| Less 3,004 Polls at \$2.00 | 6,008.00 |
| Less 3,019 Old Age Assistance | 3,019.00 |
| | 174,027.00 |

| | |
|---------------------------|---------------|
| Amount to be raised | \$ 524,538.25 |
|---------------------------|---------------|

Tax rate for 1931, \$32.40.

| | |
|--|------|
| Number of persons, partnerships and corporations as- sessed April 1, 1931 | 2888 |
| Number of automobiles assessed | 3076 |
| Number of separate assessments, 1931 | 5964 |
| Number of polls, 1931 | 3013 |
| Number of polls, 1930 | 2951 |

| | |
|---------------------------------|----------------|
| Increase in polls | 62 |
| Number of horses | 68 |
| Number of cows | 153 |
| Number of neat cattle | 11 |
| Number of swine | 108 |
| Number of dwelling houses | 2438 |
| Number of acres of land | 5770 |
| Value of Town Property | \$1,429,545.00 |
| Value of Property exempt | 528,960.00 |

| | |
|----------------------------------|-----------------|
| Total non-taxable property | \$ 1,958,505.00 |
| Total taxable property | 16,189,449.00 |
| Total value excise tax | 937,150.00 |

Total value, 1931 \$ 19,035,104.00

Report of the Survey of Land Under the Block System

We have now completed 79 plans which contain 3,830 separate lots.

| | |
|--------------------------|-----------|
| Appropriated, 1931 | \$ 500.00 |
| Balance, 1930 | 39.13 |

\$ 539.13

Expended

| | | |
|--|-----------|--------|
| Davis & Abbott, correcting plans | \$ 106.25 | |
| Davis & Abbott, 3 new plans | 315.56 | |
| Davis & Abbott, 4 new plats made from | | |
| Plat 53 | 88.57 | 510.38 |

Balance to Revenue \$ 28.75

The block system is most essential in carrying on the work of this office. There are many sections of the town yet to come under this system.

Due to the fact that all departments have been asked to curtail, we request an appropriation of \$200.00 instead of the customary \$500.00.

GEORGE E. HORROCKS

ALVAH W. CLARK

ARTHUR S. COOK

Board of Assessors.

REPORT OF TOWN COUNSEL

To the Honorable, the Law Committee of the Town of Reading:

I submit my report as Town Counsel for the year ending December 31, 1931.

The litigation brought by William H. Killam for the assessment of damages for a taking made by the Town through his land on Mount Vernon Street for the permanent maintenance of the sewer line therein, has been adjusted by the payment of \$1250.00, which sum was recommended by your Committee and authorized by vote of the Town. The necessary papers have been drafted and filed in Court disposing of the two pending cases.

Satisfactory settlements have been effected of the three suits brought by Ruth Pearse, Eva M. Pearse and Benjamin E. Sefton for personal injuries and damages as a result of an alleged defect in the highway. The amount authorized by your Committee was \$75.00 and the settlements have been carried out and the suits disposed of.

The suit brought by Richard M. Cutts, Jr. in 1923 for personal injuries and property damage as a result of an accident on the highway has finally been adjusted, under authority of a vote of your Committee, for the sum of \$50.00.

The petition brought by Anna Goldberg, the owner of property on Main Street, Reading Square, against the Board of Assessors appealing from the decision and determination of the Board in refusing to abate the real estate tax assessed for 1930, has been tried before the State Board of Tax Appeals. On the second day of the trial, the petitioner voluntarily withdrew her petition and the final entry disposing of the proceedings was duly made a matter of record by the Board of Tax Appeals.

All of the above cases were referred to in my report for the year ending December 31, 1930.

There is still pending against the Town the suit brought by Mildred J. Gray for \$1,000.00 for damages to property at 17 Kingston Street as a result of certain alleged blasting operations conducted by the Town in constructing a drain through the claimant's property. Acting under authority of your Committee, a further attempt has been made to compromise this suit, but without success. The suit of Ida C. Smith to recover \$4,000.00 as a result of personal injuries from an alleged defect on Pleasant Street, and the suit by Jennie Peters of Boston against the Town to recover \$200.00 for damages to an automobile as a result of an alleged defect in the highway, are also still pending.

The recent suit brought against the Town by George D. Dinkel for damages to his personal property by water which the claimant contends came into his cellar from Salem Street which at the time was

under construction, has been settled for the sum of \$75.00 by authority of your Committee and by vote of the Town.

A Bill in Equity has been brought in the Middlesex Superior Court against the Town of Reading and A. Russell Barnes, Inspector of Buildings by Mosès Hagopian, seeking to have the vote of the Town, passed on March 3, 1930, amending the Zoning By-law by changing the area on South Main Street, between Percy Avenue and Summer Avenue, from a business to a residence district, declared inval'd and of no effect. It is the petitioner's contention that when the land was purchased by him, the same was located in a business district and by reason of the modification of the Zoning Law applying to this area, his property is of little or no value. The necessary pleadings in behalf of the Town have been duly filed in Court and the case stands on the Court docket awaiting further action.

Proceedings have been brought by Edward Cohen against the Board of Assessors before the State Board of Tax Appeals, appealing from the decision of the Board in refusing to abate the real estate tax assessed for 1931. The property of the petitioner is located on the Northerly side of Haven Street and consists of a lot of land with a one story brick business building having four stores therein. A preliminary hearing has been held and pleadings have been drafted and filed in behalf of the Board and the case will be heard on its merits when reached for trial.

There are seventeen claims for damages pending against the Town which have not been made the subject of suit, all of which have been reported to your Committee, but no definite action has been authorized with reference to settlement.

In the performance of the duties of my office, it has been necessary for me to devote considerable time to the preparation of documents and legal instruments; consultations, attending hearings of the various Boards, rulings and opinions relative to Town matters.

I have attended during the year various hearings at the State House, among which may be mentioned the hearings with reference to the issuance of the certificates of necessity by the Department of Public Utilities for the operation in the Town of Motor Vehicles for Carriage of Passengers for Hire; also hearing before the State Board of Public Works for the approval of the regulation prohibiting the operation of commercial motor vehicles on Summer Avenue; and hearings relative to proposed legislation of the compulsory insurance law.

In connection with the activities of the Board of Public Works, I drafted, under instruction from the Board, a bill for the legislature modifying the Reading Sewerage Act of 1909 so as to allow the Board of Public Works to fix the sewer rates, attended the several hearings before the Committee and assisted in securing the passage of the law which is Chapter 85 of the Acts of 1931. I have examined and approved

the contracts for the erection of the pumping station and the equipment installed therein. Also, I attended to the legal details of acquiring sixteen parcels of land from various owners for the development of the water supply. Under the supervision of the Board of Public Works, the first street was laid out under the Betterment Act, which necessitated the drafting of new forms of reports, layouts and orders of taking. The usual routine matters of the Board of Public Works relating to sewers, drains, new street layouts and the construction of granolithic sidewalks under the Betterment Act have required my services.

I have drafted and approved the execution of the contracts and the form of bond for the Municipal Light Department for the underground conduits and splicing lead covered cables.

Acting under authority from the School Committee, I attended to the legal phases of the acquisition by the Town of two parcels of land for the proposed athletic field adjoining the Junior High School and have examined and approved the contracts for the development of the same.

Respectfully submitted,

SAMUEL H. DAVIS

Town Counsel.

REPORT OF THE BOARD OF CEMETERY TRUSTEES FOR THE YEAR 1931

The reports of the Superintendent of Cemeteries, Mr. William P. Pierpont, which cover in detail the work of the Department and approved by the Trustees, are appended.

There have been no changes on the Board for the year. Mr. Philip H. Tirrell and Mr. Clarence C. White have served as Chairman and Secretary respectively.

The terms of Mr. Clarence C. White and Mr. Winthrop D. Parker expire in March 1932, and it is hoped that they will be candidates for re-election.

In reviewing the work of the year the Board finds that much real progress has been made and that the condition of both Cemeteries has been permanently improved.

Most respectfully,

PHILLIP H. TIRRELL, Chairman,

CLARENCE C. WHITE, Secretary

FRED L. NUTTER

WINTHROP D. PARKER

HAROLD F. DAVIS

FRANK LEE EDGERLEY

Board of Cemetery Trustees.

LAUREL HILL CEMETERY REPORT 1931

To The Board of Cemetery Trustees,
Town of Reading, Mass.
Gentlemen:

Subject to your requirement and my usual custom, I herewith submit my fourth annual report of work performed in Laurel Hill Cemetery this past year.

In conjunction with the regular maintenance and up-keep of the grounds, we have continued to follow a line of permanent improvement, as far as the funds allotted from the Reserve Fund to the Department would allow.

During the past year 20,781 square feet of macadam surface has been added to the Cemetery; Elm and Oak Avenues from the Lowell Street entrance to the north intersecion of Locust Avenue, making a continuous stretch of macadam from Lowell Street to the south gate on Main Street, Locust Avenue from the south intersection of Elm Avenue to the top of the hill, Laurel Avenue from Cross Avenue to Pine Avenue; making a great improvement and the expense of up-keep will be a very small item for many years.

Through the co-operation of the School Committee, the Old South M. E. Church and the Cemetery Board a chain link fence has been built between these properties, which adds very much to this section.

Several unemployed men, through the Welfare Department, dug over eighty single graves, removing all ledge, rock and boulders, making ready for loam and seeding down.

The section of the Clapp land, set aside for lots, has been loamed and seeded and made ready to be marked into lots this next year.

There were eighty-nine interments during the year and eight lots and seven single graves sold. Sixty-five monuments and marker foundations have been built, six hundred cement boundary markers made, five hundred stepping stones placed in the paths and ninety-one sunken graves repaired. Eleven old lots have been reloamed and reseeded. Twelve old lots have had perpetual care placed on them.

I would recommend for next year that Tarvia be put on all the remaining dirt avenues, a continuation of the chain link fence to complete the west boundary, and also rebuild two catch basins in the Main Street section. The Department is very much in need of a snow plow, as the old road scraper used for several years to keep the avenues open in winter for funerals is practically useless.

The financial statement will appear in the report of the Town Accountant.

Respectfully submitted,
WILLIAM P. PIERPONT
Superintendent.

FOREST GLEN CEMETERY REPORT, 1931

To The Board of Cemetery Trustees,
Town of Reading, Mass.
Gentlemen:

The regular maintenance work has been kept up during the year, fertilizing lots, mowing grass, watering and work in general.

We have purchased and planted shrubs at each entrance, laid out in beds on each side of the avenue, which beautifies the entrances to a great extent.

A seal coat has been put on the macadam avenue, which will keep it in good condition for a great many years.

We also purchased one hundred feet of drain pipe, which I would recommend be laid this next year.

A bronze tablet has been placed at each entrance, naming the Cemetery and the year purchased.

The land west of the avenue at Forest Glen Road is gradually being filled in and in a few years will be graded and laid out into lots.

We have sold two lots in Forest Glen this year.

The section of the Cemetery now developed is in very good condition and further development is not proposed for the coming year.

The financial statement will appear in the report of the Town Accountant.

Respectfully submitted,
WILLIAM P. PIERPONT
Superintendent.

REPORT OF INSPECTOR OF ANIMALS

To the Honorable Board of Selectmen
Reading, Massachusetts
Gentlemen:

Feb. 1, 1932

May I submit herewith my report of Inspector of Animals in the Town of Reading, Mass., for the year 1931.

Subsequent to notice of the appointment of Inspector of Animals, a tour of inspection of all premises wherein sheep, swine, and cattle were kept within the town limits, and of the animals kept thereon, was conducted.

It is noticeable that owners of cattle herds are applying for State and Federal supervision in increased numbers. At present sixty per cent of the cattle owned in the town are under these regulations and I recommend the practice highly. Pure milk supply is insured by healthy cattle.

The swine interests are growing, possibly encouraged by the insurance offered by vaccination against hog cholera. One vaccination makes the animal immune for its lifetime.

There are still numerous cases of rabies reported, although at present cases are few. It is urgent that all dog owners read the symptoms of the disease which are printed on the back of every dog license. Beware of the dog with his mouth open and a strange look in his eye. Beware of the dog with a strange bark, and never put your hands into a dog's mouth. Don't pat a strange dog. Whenever possible, vaccinate your dog as a preventive measure. These few precautions will help greatly.

Respectfully submitted,
CALVERT H. PLAYDON

REPORT OF INSPECTOR OF BUILDINGS

To the Honorable Board of Selectmen:
Gentlemen:

I herewith submit my report for the year ending December 31, 1931. The building construction for the past year was as follows:

| | |
|---|--------------|
| 1 New apartment house at an estimated cost of | \$ 40,000.00 |
| 51 " one family dwellings at an estimated cost of | 270,450.00 |
| 34 Alterations and additions to dwellings at an estimated cost of | 21,995.00 |
| 44 New private garages at an estimated cost of | 12,225.00 |
| 1 New greenhouse | |
| 1 New boilerhouse | |
| 4 New roadside stands | |
| 1 New auto repair shop | |
| 5 New henhouses | |
| 1 New building for coke storage | |
| 18 Alterations and additions to various buildings | |
| Estimated cost of the above buildings | 22,890.00 |

| | |
|--|---------------|
| Total estimated cost of all new and remodelled buildings for the past year | \$ 367,560.00 |
|--|---------------|

Total number of permits granted 161

Fees received for building permits since the new building law went into effect Sept. 12, 1931 and to Dec. 31, 1931 \$124.00.

Respectfully submitted,

A. RUSSELL BARNES,
Building Inspector.

REPORT OF INSPECTOR OF PLUMBING

To the Board of Health: Gentlemen:—

I herewith submit my report for the year ending December 31, 1931.

| | |
|---------------------------------------|-----|
| Number of permits granted | 119 |
| Number of fixtures installed | 640 |
| Bath tubs | 117 |
| Boilers | 77 |
| Closets | 119 |
| Drinking fountains | 1 |
| Lavatories | 112 |
| Sinks | 102 |
| Showers | 8 |
| Wash trays | 104 |
| I have made 276 plumbing inspections. | |

Respectfully submitted,

DAVID TAGGART

Inspector of Plumbing.

REPORT OF INSPECTOR OF WIRES

To the Honorable Board of Selectmen,
Gentlemen:

I hereby submit my report for the year 1931.

Number of inspections 497. Six electricians were reported to the State Examiners of Electricians for installing defective work and as a result one electrician's license was revoked. Nine complaints were received and investigated.

In general the electricians have installed their work in a manner to conform with all rules for safety.

The new Town by-laws will be a great aid to the inspector.

A notice was printed in the Reading Chronicle warning the public against unsafe types of so called instantaneous and immersion water heaters. Many of these have been offered for sale and advertised in the Boston papers and are a menace to persons using them.

I wish to thank all who have assisted me in my work.

Respectfully submitted,

HUGH L. EAMES,

Inspector of Wires.

REPORT OF THE INSPECTOR OF MILK AND FOOD

To the Board of Health
Town of Reading
Gentlemen:—

The inspection of the milk supply for the Town of Reading for the year 1931 has varied very little from that of former years. It has consisted in the licensing of all dealers and stores selling milk in the town and in the enforcement of both the state and town regulations.

Last year the board passed the regulations that all milk sold in the town must be either pasteurized or from cows that had passed the tuberculin test. Naturally it took considerable time to comply with this regulation, but for several months now all the milk sold in the town has been either pasteurized or from cows that have been tested and passed. This has surely been a great step forward in the protection of health. There has also been a great improvement in the sanitary conditions of several of the local dairies.

The yearly average of the fat and total-solids content for the entire milk supply has been higher than it was for last year.

There are 13 dealers and 25 stores licensed to sell milk this year.

The office of Inspector of Food is a newly created one, made necessary by the adoption by the Board of Health of new regulations governing the storage, sale and sanitary conditions under which food is stored, sold and prepared.

It was first necessary to notify all persons concerned of the adoption of these rules and to supply them with copies of the same that they might acquaint themselves with the particular regulations that applied to their business. This has been done and sufficient time was given them to remedy any conditions that might be contrary to the regulations.

I am glad to report that in all cases where it was found necessary to make changes to comply with the new regulations that I had fine cooperation and the existing conditions were rapidly remedied.

Several complaints were investigated and when an infringement of the regulations was found to exist and it was called to the attention of the proprietor it was immediately made right.

I can report at this time that the sanitary conditions under which food is stored, prepared and sold in this town are being maintained in a very satisfactory manner.

CARL M. SMITH,
Inspector of Milk and Food.

REPORT OF THE SEALER OF WEIGHTS AND MEASURES

To the Board of Selectmen
Town of Reading
Gentlemen:—

The close of the year 1931 finds all of the scales, weights and measures in use in the town tested and sealed or labeled for repairs. There was an unusual number of the latter this year, due to the fact that it was almost impossible to get any co-operation from the scale and gasoline pump companies, as they had cut down their maintenance expenses by reducing their forces. This condition must be remedied this year by adopting drastic means.

The revenue of the department has been somewhat reduced this year, although there was actually more work accomplished. This was due to the fact that the sealing-fee for the new electric gasoline pump is only ten cents, while the fee for sealing the old style pump was fifty cents. The fees are established by the state department.

In addition to the testing and sealing of all devices in town used for buying and selling and the reweighing of many of the commodities as put up for sale to the public, to insure the delivery of the proper weight, this department enforces all regulations that govern pedlars and transient vendors.

Below is a tabulation of the work accomplished this year:—

| Commodity | Number Tested | Number Correct | Incorrect | |
|-----------------------|------------------|-------------------|-----------|----------|
| | | | Under | Over |
| Bread | 20 | 16 | 1 | 3 |
| Butter | 14 | 13 | 1 | |
| Coal, in paper bags | 10 | 6 | 3 | 1 |
| Dry Commodities | 42 | 34 | 3 | 5 |
| Flour | 6 | 4 | 1 | 1 |
| Fruits and Vegetables | 12 | 11 | | 1 |
| Grain & Feed | 6 | 6 | | |
| Ice | 4 | 1 | 1 | 2 |
| Meats & Provisions | 14 | 12 | 1 | 1 |
| | <hr/> 128 | <hr/> 103 | <hr/> 11 | <hr/> 14 |

Summary of Inspections

Paper cartons, 1; Labels on bread, 4; Oil jars, 6; Clinical therm., 1; Pedlars scales, 2; Ice scales, 4; Junk scales, 2; Gasoline devices, after sealing, 4.

Number of scales, weights and measures tested and sealed in the town of Reading from Dec. 1, 1930 to Dec. 1, 1931 inclusive.

| | Adjusted | Sealed | Non Sealed | Condemned |
|--------------------------------|-----------|-----------|---------------|-----------|
| Platform scales over 5,000 lbs | 3 | 3 | | |
| " " under 5,000 lbs | 11 | 11 | 1 | |
| Spring-balance | 24 | 43 | | |
| Computing scales | 11 | 23 | | 2 |
| Slot weighing scales | | 2 | | 2 |
| Weights | | 163 | | 2 |
| Dry Measures | | 4 | | |
| Liquid Measures | | 45 | | 6 |
| Gasolene pumps | 6 | 51 | | 5 |
| Yard Measures | | 12 | | |
| Quantity stops on pumps | 67 | 265 | | |
| | <hr/> 142 | <hr/> 622 | <hr/> 1 | <hr/> 17 |

CARL M. SMITH,
Sealer of Weights and Measures.

REPORT OF BOARD OF HEALTH

To the Citizens of Reading:

There were three hundred twenty-nine (329) contagious cases reported during the year 1931.

| | |
|------------------------------|--------------------------|
| Anterior Poliomyelitis | 6 |
| Chicken Pox | 18 |
| Lobar Pneumonia | 1 |
| Measles | 159 |
| Scarlet Fever | 17 |
| Tuberculosis | 17 |
| Whooping Cough | 11 |
| Number of deaths | 86 |
| Male | 40 |
| Female | 46 |
| 3 were over 90 years | 5 were between 40 and 56 |
| 14 were between 80 and 90 | 3 were between 30 and 40 |
| 25 were between 70 and 80 | 1 was under 1 year |
| 16 were between 60 and 70 | 3 still births |
| 16 were between 50 and 60 | |

Respectfully submitted,

E. M. HALLIGAN, M. D.,
C. F. ATKINSON,
G. W. S. IDE,

Board of Health

OLD AGE ASSISTANCE REPORT

To the Board of Public Welfare:

Bureau of Old Age Assistance.

The following report is submitted for the year ending Dec 31, 1931.

The Old Age Assistance Act which took effect July 1, 1931, provides for assistance to worthy citizens over seventy years of age who have had twenty years residence in the State. It is not in any sense a pension. There must be real need before aid is given. The ability of children to help in the support of their parents is carefully considered.

Sixty-one persons have applied for this type of assistance. Thirty-nine applications have been accepted. Of these, two have been cancelled by death. There are three married couples, each person being considered as a separate case. There are 11 widows and 5 widowers.

The aged people are kept in their own homes whenever possible, for the greater number of them are longtime residents of the town, who through illness, unemployment or adversity have been compelled to use up their savings. Thirty-four are still at home or living with near relatives, 4 are boarding with private families and 1 in a hospital.

Old Age Assistance has placed an added burden on the Board of Public Welfare and on the taxpayers of the State. But the knowledge that these good citizens of our town need not face their declining years in want, or fear of separation from loved ones, will make that burden easier to bear.

Respectfully submitted,
ANNIE E. PATRICK, Visitor.

REPORT OF THE BOARD OF PUBLIC WELFARE

To the Citizens of Reading:

The Board of Overseers of the Public Welfare submits herewith the report for the year ending December 31, 1931.

The following officers were elected at the first meeting of the Board: Mary F. Daniel, chairman, Myrtle L. Leman, secretary, and George H. Sidebottom, treasurer of the Special Fund. The Board re-appointed the Visitor, Helen A. Brown and the Clerk, Leon G. Bent.

The tables of comparison shown below will give the citizens a clear and concise idea of the increase in need and in the amount of relief, together with the amount to be reimbursed by the State and by other cities and towns.

| | 1930 | 1931 |
|--|-------------|-------------|
| Aid, Board and Care | \$14,626.39 | \$20,103.63 |
| Mothers' Aid | 4,069.93 | 4,812.01 |
| Temporary Aid | 3,235.01 | 4,045.88 |
| Administration | 952.00 | 1,152.00 |
| Old Age Assistance July 1 to Dec. 31, 1931 | | 4,280.62 |
| Total | \$22,883.33 | \$34,394.14 |

The following reimbursements have been or will be received:

| | |
|---|-------------|
| Aid, Board and Care (from other cities and towns) | 3,038.93 |
| (from the Hospital Fund) | 1,003.13 |
| Mothers' Aid from the state and other towns | 2,598.92 |
| Temporary Aid from the State | 4,045.88 |
| Old Age Assistance (from the State and other towns) | 2,148.20 |
| Total reimbursements | \$12,835.06 |

The following table shows that the lack of employment was by far the greatest factor to be considered.

| Causes for seeking aid | 1930 | 1931 |
|-------------------------------------|------|------|
| Unemployment | 34 | 56 |
| Illness | 11 | 12 |
| Old Age | 11 | 47 |
| Widowhood | 10 | 12 |
| Desertion or non-support | 7 | 8 |
| Mentally deficient | 3 | 5 |
| Total number of persons aided | 269 | 448 |

Public Works and Light Department projects which require laborers, materially affect the expenditures under the Town Aid Budget. The system used by the Board of Public Works, by which the work was spread out to cover the greatest number of workers relieved many people from seeking aid from this department.

Co-operation with the Selectmen on their Employment Plan made a success of a theory devised last year by the Welfare Board but not satisfactorily carried out because of lack of supervision. The Welfare Department cannot carry on projects but it can see that men are employed by other town departments in return for aid given.

Since November, when the Employment Plan went into operation, all able bodied men receiving aid have been employed and thus the town receives a return for aid given. The Board plans to continue this system, with the co-operation of the other town departments, as long as there are able-bodied men seeking aid.

The largest item in the Welfare budget is that of Aid, Board and Care, or Town Aid, to be used for the relief of those cases which have a settlement in Reading or in any other town or city in the Common-

wealth. A person must live five years in a town or city without receiving public aid before he can gain a settlement. The town or city in which a person has a settlement reimburses for the aid given.

The second largest item of expense is the Old Age Assistance, which went into effect July 1, 1931. Mrs. Annie E. Patrick was appointed part time visitor for the Bureau. The Board planned for twenty cases, based on statistics given by the State. But the applications came in so rapidly that they reached a total of sixty-one by the end of the year. Of these thirty-nine have been accepted at an average of \$5.73 per person. The unemployment situation has affected our aged people indirectly in that it reaches the relatives and friends whose homes in normal times offered shelter to those too old to care for themselves. Feeling that the peak has been reached on this type of aid, the Board has not increased its budget over the amount needed for last year.

Mothers' Aid, which provides partial support for mothers with dependent children, has also felt the depression, for the older children have been unable to earn, and the mother herself has found it almost impossible to obtain the extra day's work which would swell her meagre budget. The State reimburses for one-third of the aid given.

Temporary Aid, provides assistance for those who have no legal settlement in any town or city in the Commonwealth. The State reimburses wholly for these cases. Unfortunately these people are usually not citizens, which makes it impossible for them to get work with Town departments. They are, however, being employed under the Welfare Department, whenever physically able.

Hospital care paid for directly by the Hospital Fund Trustees in no small measure relieves the Welfare Board of the expense of caring for the sick. During 1931 in addition to the reimbursement of \$1,003.13 the Trustees' disbursements amounted to \$5,658.79.

The four above mentioned types of aid are all part of the departmental organization of Public Welfare. But the Town of Reading has still another kind of assistance made possible by the generosity and kindness of its citizens. This is the Special Fund, contributed to by the following organizations:

Firemen's Relief Association, Board of Selectmen, Reading Chronicle, Reading Teachers' Club, Municipal Light Department, Police Department, Reading College Club, Pomona Grange and individual contributors.

This money has been invaluable to the Board and to those who have benefited by it. It is worth far more than its actual face value. It has bought milk for children whose parents did not ask for aid, it has bought tickets to Boston for men of specialized trades, so that they could seek work, it has paid for much needed medical appliances, has bought shoes and clothing, has been loaned to tide over a small gap in

employment, and to pay for medical care. It bought an oil stove which was used to cook meals of a tubercular man waiting to be admitted to the sanatorium, so that others need not be exposed to the disease at restaurant or boarding house.

The temporary loans to citizens, who would never seek aid but who nevertheless were in real need, have been the greatest satisfaction to the members of the Board, who hope that public-spirited citizens will keep this fund in existence always.

Aside from the donations of money listed above, the Board wishes to gratefully acknowledge the many gifts of usable clothing from interested friends, a carload of heavy timbers procured through the kindness of Louis Ellenwood, a number of large boxes of stockings, gloves, handkerchiefs, ties, other clothing and toys given by the Sunday School of the Old South Church at Christmas time, two layettes made by the members of the Junior Woman's Club, and warm clothing, mended and put in order by the Women's Service League of the Church of the Good Shepherd.

Miss Helen A. Brown, Mrs. Annie E. Patrick, and Leon G. Bent, have all given unstintingly of their time and energy for which the Board is sincerely grateful.

MARY F. DANIEL
MYRTLE L. LEMAN
GEORGE H. SIDEBOTTOM
Board of Public Welfare.

REPORT OF TOWN FOREST COMMITTEE

To the Board of Selectmen,
Town of Reading,
Reading, Massachusetts.
Gentlemen:

The Town Forest is becoming more than a mere name. It is now a real living forest of little pines. To those who had a part in the planting of the first trees a few years ago, there will come increasingly, year by year, a thrill as they see little seedlings of yesteryear become a maturing stately symbol of growth and development in the years to come. Already bushy green heads are forcing their way up above the thick and grasping undergrowth of sweet ferns, blueberry bushes and sprouts.

More land has been cleared and planted in 1931, making at present a total acreage of 45 acres cleared, and 37 acres planted.

The total number of trees set out since the opening of the Town Forest on April 19, 1930 is as follows:

White Pine, 19,000; Red Pine, 14,000; Spruce, 4,000; Total 37,000.

The expenses for 1931 were as follows:

Labor, \$682.32; Express, \$13.42; Supplies, \$3.40; Totals \$699.14.

In 1930 the expenditures amounted to \$1496.91 which includes the cost of surveying, takings of land, land court charges, clearing and planting.

We have had visitations by officials from the State Department of Forestry, and are informed that a larger percentage of trees, set out by us, have survived than is usual in the planting of forest land. Comparatively, Reading ranks very high with other cities and towns in the development of a Town Forest. We hope the citizens will have an increasing interest in this project and will visit the Forest on occasions other than the blueberry season.

Very respectfully yours,

LELAND W. KINGMAN

O. O. ORDWAY

HENRY M. DONEGAN

Town Forest Committee

REPORT OF THE BOARD OF APPEAL

To the Honorable Board of Selectmen:

Gentlemen: Thirteen petitions for relief from different provisions of the Zoning By-Law were presented to the Board of Appeal during 1931, on all of which public hearings were given, as required by the By-Law. Of these petitions, ten were granted, three were denied.

Of the petitions granted, three were for permission to construct additions to residence buildings, and two were for permission to build private garages, all five of these bringing the structures nearer the lot lines than permitted by the By-Law, but in every case constituting a technical rather than a practical violation; one asked for an extension to the Baptist Church, one was for permission to place an apartment house nearer to the rear lot line than allowed by the By-Law, thereby permitting a greater set-back from the street, two were for extension of now conforming use of business premises, and one was for permission to install and use temporarily, equipment for processing rock and gravel used in the construction of state road.

Of the three petitions denied, two were for establishment of new business in residential zone, and one was for extension of non-conforming use.

Respectfully submitted,

HENRY Q. MILLETT, Chairman.

FRED L. NUTTER, Secretary

CHARLES A. DAMON

Board of Appeal

REPORT OF THE CHIEF OF POLICE

To the Honorable Board of Selectmen.
Gentlemen;

I herewith submit the annual report of the Police Department of the Town of Reading for the year ending December 31, 1931.

Arrests for the year 1931—474

Males, 464; Females, 10; Residents, 117; Non-Residents, 357; Adults, 418; Minors, 56; American born 409; Foreign born 65.

Causes of Arrests

Assault and battery, 7; drunkenness, 155; robbery at night, 2; Larceny, 9; Driving under the influence of liquor, 39; Default, 3; Theft of Automobiles, 4; Automobile law violations, 221; Warrants from out Town officers, 10; Insane, 5; Capias, 5; Non-support, 6; Neglected child, 2; Keeping and exposing liquor sale, 3; Stubborn child, 1; Assault with attempt to rob, 1; Vagrancy, 2; Indecent exposure, 1; Promoting lottery, 1; Issued checks without funds to meet the same, 1; Railer and brawler, 1; Throwing glass in the street, 1.

Disposition of Cases in Court

Fined, 240; Filed, 65; Probation, 10; Released, 76; Discharged, 26; Turned over to out Town officers, 12; House of Correction, 8; House of Correction suspended, 18; Danvers State Hospital, 5; Lancaster school, 1; Defaulted, 3; Shirley school suspended, 3; Grand Jury, 3; Continued, 3.

Miscellaneous

Horse shot, 1; Automobile accidents, 224; Cases investigated, 251; Vacated houses, special attention given, 20; Guarding mail, 76; Guarding pay rolls, 75; Lost children found and returned to parents, 37; Accidents other than automobiles, 7; Doors found open and secured, 135; Automobiles reported stolen by out Town officers, 149; Street lights out and reported, 37; Summons served for out Town officers, 101; Wires found down and reported, 6; Dogs killed by officers, 33; Dogs killed by automobiles, 25; Dogs found and returned to owners, 14; Goods found by officers outside stores and brought to the station valued at \$100.00; Old people found and taken home, 5; Windows found open and secured, 27; Windows found broken in buildings, 5; Property reported stolen, \$14431.00; Property recovered, \$13443.00; Property recovered for out Town officers, \$2050.00, Search warrants served, 6; Dead bodies taken care of, 2; Messages delivered at night by officers, 21; Defects in streets and sidewalks reported, 11; Automobile transfer, 240; Police ambulance has made the following runs to hospitals: Winchester, 20; Mass. General, 7; Mass. Memorial, 3; Melrose, 2; Peter Bent Brigham, 2; Private hospital in Wakefield, 2; State hospital, Danvers, 5; State hospital, Tewksbury, 3.

Amount of Fines Imposed by the Court

64 at \$5.00 each, \$320.00; 121 at \$10.00 each, \$1210.00; 13 at \$15.00 each, \$195.00; 13 at \$20.00 each, \$260.00; 3 at \$25.00 each, \$75.00; 4 at \$30.00 each, \$120.00; 29 at \$50.00 each, \$1450.00; 1 at \$75.00 each.

I recommend a new ambulance as our Studebaker is getting old being a 1927 car, and I recommend we replace the 1928 Ford touring car on account of the cost of repairs.

Conclusion

At this time I wish to thank the Honorable Board of Selectmen, the Judges of the District Court, the Clerks of the Court, our local Press, and all others who have assisted in promoting the welfare of this department; also the members of the force for what they have done.

Respectfully yours,

JEREMIAH CULLINANE,

Chief of Police.

REPORT OF CHIEF OF FIRE DEPARTMENT

To the Honorable Board of Selectmen.
Gentlemen:

The annual report of the Fire Department is herewith submitted giving the record of fires that have occurred during the year ending December 31st 1931 together with such information as I think may be of interest to the town.

Finances

My financial transactions are all embodied in the report of the Town Accountant to which I would respectfully refer you for any information you may desire in that line.

Manual Force

The Department consists of nine (9) permanent men (including the Chief) and twenty-one call men.

Apparatus and Equipment

The Department has five pieces of motor apparatus and a sedan for the use of the Chief. The Chief's car and four pieces of apparatus are at the Central Fire Station as follows; one Knox triple combination of 600 gallons per minute capacity which was purchased in 1913. One Seagrave combination, equipped with a booster tank, of 600 gallons per minute capacity which was purchased in 1928. One Robinson combination service ladder truck in which a White motor has been installed, this machine was purchased in 1916. And one Simplex hose truck equipped with a portable pump which was built by permanent force in 1923 and is equipped for grass and brush fires.

At Engine No. 2 station on Woburn St. there is a Seagrave combination of 400 gallons per minute capacity equipped with a booster tank. This machine was purchased in 1926.

Engines 2 and 3, the ladder truck and the Simplex hose truck are in good condition. Combination A (the Knox Combination) is in very poor condition, and should be replaced this year. This machine was purchased in 1913 and is now nineteen years old. The company that built it have been out of business for more than twelve years and I have very much trouble getting repair parts for it and I doubt very much if this machine would stand up in the event of a large fire.

Recommendations

I would recommend the expenditure of \$12,500.00 for the purchase of a triple combination of 750 gallons per minute capacity I would also recommend that a reward of (\$25.00) twenty-five dollars be offered for the information leading to the arrest of any person sounding a false alarm. And I would also recommend that your board study the matter of a new fire alarm system this year as no fire department is any more efficient than its alarm system.

Fire Prevention

I have issued 825 permits for fires out of doors, 34 permits for the storage of oil and the installation of oil burning equipment, 6 permits for the sale of fireworks, 5 permits for the transportation of explosives and 4 permits to conduct blasting operations.

The members of the permanent force and myself have made regular inspections of all mercantile establishments and garages.

Record of Alarms

| Month | Bell | Still | Total |
|--|------|-------|--------|
| January | 6 | 4 | 10 |
| February | 1 | 5 | 6 |
| March | 5 | 19 | 24 |
| April | 18 | 52 | 70 |
| May | 6 | 20 | 26 |
| June | 5 | 5 | 10 |
| July | 3 | 9 | 12 |
| August | 2 | 4 | 6 |
| September | 3 | 10 | 13 |
| October | 10 | 28 | 38 |
| November | 10 | 41 | 51 |
| December | 6 | 23 | 29 |
| Totals | 75 | 220 | 295 |
| Miles traveled | | | 1184.2 |
| Number feet of 2½ inch hose laid | | | 15,650 |
| Number feet of 1½ inch hose laid | | | 23,150 |

| | |
|---|--------------|
| Number feet of chemical hose laid | 5350 |
| Number feet of ladders raised | 720 |
| Gallons of chemicals used | 96 |
| Number of times boosters tanks used | 47 |
| Gallons of gasoline used | 875 |
| Gallons of oil used | 33 |
| Value of property in danger | \$ 92,566.44 |
| Insurance thereon | 94,700.00 |
| Loss thereto | 13,251.46 |
| Insurance paid | 12,441.46 |

Conclusion

In concluding, I wish to extend to your Honorable Board, the Town Accountant, Treasurer and the Finance Committee, my thanks for the courtesies and co-operation I have received during the year. I wish to compliment the officers and members of the department on the prompt and efficient manner in which they have performed their duties. I also wish to express my thanks to the Chief of Police for the services rendered by his department at fires and to the employees of the New England Telephone and Telegraph Company for the prompt and efficient service rendered in receiving alarms by telephone.

Respectfully submitted,

ORVILLE O. ORDWAY,

Chief of Fire Department.

REPORT OF FOREST WARDEN

To the Honorable, Board of Selectmen;
Gentlemen:

The annual report of the Forest Warden is herewith submitted for the year ending December 31st 1931.

The financial transactions of the department are embodied in the report of the Town Accountant to which I refer you for any information along this line.

The following deputies were appointed by me and approved by the State Forest Warden: Henry M. Donegan, 11 Federal St., John L. O'Brien and Hugh L. Eames, Central Fire Station.

Combination C, is used for grass and brush fires. This machine is equipped with 1800 feet of 1½ inch hose as well as brooms and pump cans. A portable gasoline pump of 100 gallons per minute capacity was added to the equipment this year. Although I have had very little use for this pump this year it is a valuable addition to this department.

All woodland has been posted as in former years. And all fires were investigated and reported to the State Forest Warden.

In concluding I wish to thank all those who have assisted this department during the year.

Respectfully submitted,
ORVILLE O. ORDWAY,
Forest Warden.

REPORT OF THE SUPERINTENDENT OF FIRE ALARM

To the Honorable Board of Selectmen,
Gentlemen:

The following is the report of the Superintendent of Fire Alarm for the year of 1931.

Two new boxes have been installed. Box 1212 at Main and Haven sts. and Box 623 at School and Dudley sts. with auxiliary stations in the Grouard House and the Opportunity School giving both of these schools fire alarm protection. Box 68 has been located at Grove and Franklin Sts.

The Fire Alarm wires in the square have been placed underground with 3 fire alarm box pedestals, one combination fire and police pedestal and one terminal pedestal, 5048 feet of lead covered cable was placed in underground ducts containing spare wires for future growth of the system. At points where overhead wires enter the underground the cables are protected against lightning and heavy currents by vacuum arresters. About one mile of overhead wire and one hundred cross arms were removed.

It was necessary to install a charging outfit for the first alarm battery when the Eastern Massachusetts Street Railway Company discontinued their service. A $\frac{1}{2}$ k. w. generator driven by a $\frac{3}{4}$ h. p. motor was purchased and is giving satisfacton.

About 3 miles of wire was rerun, $1\frac{1}{2}$ miles of new wire run and North Main street construction was rebuilt with the widening of the state road. Tree insulators have been placed where needed and trees trimmed to avoid grounding, and the whistle valve has been repaired.

One box has been damaged to such an extent that I recommend that it be replaced.

I recommend a fire alarm box in the terminal pedestal at the corner of Main and Charles Sts. Also that a substantial reward be offered for the information leading to the arrest and conviction of persons sounding false alarms or tampering with the fire alarm system.

Fire Alarm

| | |
|---------------------------------|-----------------------------------|
| 112 Woburn and Sanborn. | 26 Engine 2 house, Woburn St. |
| 113 Woburn and Bancroft Av. | 262 Berkeley and Fremont. |
| 114 Mt. Vernon opp. Chute. | 27 Summer Av. so. of Prescott. |
| 115 Woburn and High. | 28 West and County Rd. |
| 12 Central Fire Station. | 29 West and King . |
| 121 Reading Sq., opp. Pleasant | 291 West and Longwood Rd. |
| 1212 Main and Haven. | 31 Lowell, Grove and Willow. |
| 122 Haven and Gould. | 312 Lowell and Dustin. |
| 123 Green east of High. | 33 Lowell and Grand. |
| 13 Ash and Avon. | 34 Grove and Forest. |
| 14 Oak and Hill Crest Rd. | 35 No. Main and Locust. |
| 141 Howard and Hill Crest Rd. | 36 No. Main and Ridge Rd. |
| 15 Summer Av. and Walnut. | 37 No. Main front of no. 409. |
| 152 Summer Av. and Penn. Av. | 38 No. Main and Forest Glen Rd. |
| 16 So. Main and South. | 381 Forest east of Colburn Rd. |
| 18 Minot and Park Av. | 39 No. Main and Franklin. |
| 19 Walnut and Curtis. | 392 No. Main and Mill. |
| 21 Temple and Summer Av. | 41 Village and Green. |
| 211 Prescott and Arlington. | 412 Boston Stove Foundry. |
| 212 Prescott and Sunnyside Av. | 414 Green and Beech. |
| 213 Pratt and Fairview Av. | 42 Haven and John. |
| 217 West and Howard. | 422 Eaton and Pleasant. |
| 221 Union St. School. (Private) | 43 Salem and John. |
| 223 Lowell and Salem. | 44 Salem and Pearl. |
| 224 High School. (Private) | 442 Pierce and Orange. |
| 225 Highland School. (Private) | 45 Salem and Belmont. |
| 226 Lowell St. School. | 452 Salem nr. Libby Av. |
| 227 Prospect St. School. | 46 Pearl and Charles. |
| 228 Chestnut Hill School. | 47 Haverhill and Charles. |
| 23 Woburn and Temple. | 48 Bay State Rd. |
| 231 West beyond Longwood Rd. | *482 Old Fair Grnds.. off Salem |
| 232 Junior High School. | *485 Rifle Range, off Hav'h'l St. |
| 24 Hancock and Mineral. | 49 Haverhill and Franklin. |
| 242 Summer Av. and Woodbine. | 51 Main, Ash and Washington |
| 25 Prospect and King. | 53 So. Main and Knollwood Rd. |
| 252 Longview Rd. | 54 Ash and Cross. |

| | | | |
|-----|---------------------------|------|------------------------------|
| 55 | Reading Rubber Mills. | 642 | Vine and Vale Rd. |
| 6 | C. H. Bangs Co. (Private) | 65 | Middlesex and Bancroft Aves. |
| 61 | Lowell and Highland. | 67 | Middlesex Av. and High. |
| 611 | Home for Aged Women. (P) | 68 | Grove and Franklin. |
| 612 | Bancroft Av. and Locust. | *681 | Grove beyond Franklin. |
| 614 | Auburn and Park St. | 69 | Franklin, Van Norden Rd. |
| 62 | Spare box. | 8 | Out of Town. |
| 623 | School and Dudley. | 81 | Call to Wakefield. |
| 63 | Hanscom Av. No. of Weston | 82 | State Sanatorium, No. Read. |

Special Signals

| | | | |
|----|------------------------------|-----|-----------------------------|
| 2 | All out signal. | 3-3 | Boy Scout call. |
| 2 | Test, 7.45 a. m., 5.45 p. m. | 4 | Followed by box, 3rd alarm. |
| 22 | No school signal. | 4 | Police call. |
| 3 | Followed by box, 2nd alarm. | | |

* Transmitter boxes can only be sounded from Central Fire Station.

Respectfully submitted,

HUGH L. EAMES,
Superintendent of Fire Alarm.

Thirty-seventh Annual Report

OF THE

ELECTRIC LIGHT COMMISSIONERS

For the Year Ended December 31

1931

OFFICERS OF ELECTRIC LIGHT AND POWER DEPARTMENT

Commissioners

HENRY R. JOHNSON ChairmanTerm expires 1932
 HERBERT G. EVANS, SecretaryTerm expires 1933
 HARRY P. BAKERTerm expires 1934

Manager

ARTHUR G. SIAS

Office

177 Main Street, Reading, Mass.

MANAGER'S REPORT

To the Municipal Light Board:
 Gentlemen:

I respectfully submit my report of the operations of the Municipal Light Plant for the fiscal year ending December 31, 1931. This has been the first year since 1915 that the department has not shown an increase over the previous year in the number of kilowatt hours sold.

The decrease was small, amounting to about seven-tenths of 1 per cent and was due to the decreased use of electric power for manufacturing purposes. The decrease for the entire country was 4 per cent. Substantial increases were made in the number of kilowatt hours sold for lighting, cooking, heating and refrigeration.

The number of kilowatt hours delivered at the switchboard on the day of greatest output was 25930 and occurred on December 24th. The maximum demand on the plant was 2250 K. W. which occurred on the day of maximum output. This is an increase of 60 K. W. over the previous year.

The following table shows the number of kilowatt hours purchased, the number sold for the various classes of service, the number furnished for which no revenue was received, and the amount unaccounted for during the past two years.

K. W. HOURS PURCHASED AND SOLD

| | 1931 | 1930 | Increase or Decrease |
|---|-----------|-----------|----------------------------|
| K. W. Hours: | | | |
| Generated | none | none | |
| Purchased | 6,885,880 | 7,050,708 | 164,828 |
| Totals | 6,885,880 | 7,050,708 | 164,828 |
| K. W. Hours Sold: | | | |
| Residence Service | 3,118,622 | 2,783,528 | 335,094 |
| Commercial Lighting | 543,591 | 500,427 | 43,164 |
| Commercial Heating | 233,401 | 201,151 | 32,250 |
| Commercial Power—Retail | 1,001,116 | 1,017,313 | 16,197 |
| Commercial Power—Wholesale .. | 342,980 | 763,140 | 420,160 |
| Municipal Lighting | 104,556 | 98,495 | 6,061 |
| Municipal Power | 198,865 | 246,340 | 47,475 |
| Street Lighting | 418,247 | 391,385 | 26,862 |
| Police Spot Lights | 3,210 | 3,056 | 154 |
| Sub-total | 5,964,588 | 6,004,835 | 40,247 |
| K. W. Hours used at Office, Station and Garage | 52,634 | 52,117 | 517 |
| K. W. Hours used for Christmas Il- lumination | 10,788 | 14,264 | 3,476 |
| K. W. Hours Unaccounted for | 857,870 | 979,492 | 121,622 |
| Totals | 6,885,880 | 7,050,708 | 164,828 |
| Per Cent Unaccounted for | 12.45% | 13.9% | 1.45% |

The number of kilowatt hours sold for residence service increased approximately 12 per cent and showed an average annual use per residence meter of 658. In 1930 the average use was 611, and in 1929 it was 544 kilowatt hours. These figures show that each year more of our customers are taking advantage of our exceptionally favorable rates for residence service and are using more electrical appliances in their homes.

Sales of kilowatt hours for commercial lighting show an increase of 8.6 per cent; for commercial heating and refrigeration 16 per cent; and for street lighting 7.7 per cent. The number of kilowatt hours used for power dropped off considerably, showing a reduction of nearly 24 per cent.

The kilowatt hours unaccounted for, which represent losses in the distribution system, dropped from 979,492 to 857,870, the latter figure representing a loss of 12.45 per cent which is a reduction of

about 1 1-2 per cent over last year. It is about 33 1-3 per cent less than the average for the entire country.

This compares with a loss of 18 per cent in 1929, a reduction of about one-third, due principally to the increase in the size of feeders, the grouping of several customers in a given area on one large transformer, and the removal of several small transformers; also to the stabilizing effect on the voltage at customer's premises by the new feeder voltage regulators at the power station.

The current purchased during the year cost 1.134 cents per kilowatt hour delivered at our switchboard, as compared with 1.106 cents in 1930.

This increase is due to a slight increase in the maximum demand and also to the reduction in the number of kilowatt hours sold for power during off-peak hours.

The production cost per kilowatt hour purchased, including labor and all station expenses, was 1.397 cents, and average total operating cost of all kilowatt hours sold, including the kilowatt hours delivered to street lights, was 4.478 cents.

The average income per kilowatt hour sold to consumers and delivered to street lights, including the appropriation for street lighting, was 4.64 cents.

A comparison of the costs per kilowatt hour sold and delivered to street lights for the years 1931 and 1930 is shown in the following table:

Comparison of Operation Costs, 1931—1930

| | 1931 | 1930 |
|---------------------------------|-------|-------|
| Production | 1.343 | 1.332 |
| Distribution | 1.233 | 1.139 |
| Utilization | 0.184 | 0.169 |
| Commercial | 0.245 | 0.240 |
| New Business | 0.043 | 0.061 |
| General and Miscellaneous | 1.149 | 0.980 |
| Bonds, Notes and Interest | 0.281 | 0.265 |
| | <hr/> | <hr/> |
| Total Costs | 4.478 | 4.186 |

The total income from sales of current shows an increase of \$9,868.01 over the previous year or about 3.7 per cent, notwithstanding the loss in revenue from power sales of \$10,179.73. This of course is due to the increase in revenue from the other classes of service.

The cost of operating the street lights in Reading for 1931 was \$14,515.97. There was appropriated from the tax levy for this purpose \$13,500.00.

The following tables show the classification of income and kilowatt hours sold for 1931 and 1930:

Income from Sales of Current

| | 1931 | 1930 | Increase or Decrease |
|--------------------------------|--------------|--------------|----------------------------|
| Residence Service | \$159,147.38 | \$143,939.34 | \$ 15,208.04 |
| Commercial Lighting | 36,509.62 | 34,599.15 | 1,910.47 |
| Commercial Heating | 7,958.15 | 6,942.82 | 1,015.33 |
| Commercial Power—Retail | 32,788.29 | 33,944.39 | 1,156.10 |
| Commercial Power—Wholesale ... | 6,298.18 | 14,086.86 | 7,788.68 |
| Municipal Light | 2,111.34 | 1,915.72 | 195.62 |
| Municipal Power | 4,315.69 | 5,505.26 | 1,189.57 |
| Street Lighting | 27,630.82 | 25,957.92 | 1,672.90 |
| Totals | \$276,759.47 | \$266,891.46 | \$9,868.01 |

Income from Each Town

| | 1931 | 1930 | Increase or Decrease |
|------------------------|--------------|--------------|----------------------------|
| Reading | \$173,513.76 | \$163,207.91 | \$10,305.85 |
| Lynnfield Center | 17,356.37 | 15,275.35 | 2,081.02 |
| North Reading | 32,180.79 | 28,914.17 | 3,266.62 |
| Wilmington | 53,205.57 | 58,986.79 | 5,781.22 |
| Other Districts | 502.98 | 507.24 | 4.26 |
| Totals | \$276,759.47 | \$266,891.46 | \$9,868.01 |

K. W. Hours Sold in Each Town

| | 1931 | 1930 | Increase or Decrease |
|------------------------|-----------|-----------|----------------------------|
| Reading | 4,307,788 | 4,024,023 | 233,765 |
| Lynnfield Center | 282,854 | 238,873 | 43,981 |
| North Reading | 538,593 | 454,640 | 83,953 |
| Wilmington | 826,222 | 1,278,985 | 452,763 |
| Other Districts | 9,131 | 8,314 | 817 |
| Totals | 5,964,588 | 6,004,835 | 40,247 |

Operating expenses for the year show an increase over 1930 of \$13,045.33, about one-third of which is accounted for by increase in the Depreciation allowance and Adjustments of inventory values.

The expense for Operation and Maintenance of Distribution Lines increased \$8,794.96. The relocation of poles and wires in connection with the rebuilding of the State Highway on Main Street cost \$4,667.15. The balance of the increase is due to tree trimming expense of which \$4,086.57 was expended in Reading.

We have paid \$13,000 for bonds retired during the year. \$40,000 in 3 1-2 per cent bonds were issued for the underground construction in Reading Square and vicinity. The amount of bonds outstanding on December 31st was \$96,500.

The increase in inventory value is \$567.87 after adjustments amounting to \$2,500.99.

Current assets are \$102,025.26 and current and accrued liabilities \$44,253.28, showing an excess of assets over liabilities of \$57,771.98.

Cash on hand and Accounts Receivable amount to \$35,906.34. Accounts Payable charged to Operating accounts are \$31,877.33 and to Construction accounts \$4,345.61. We have repaid the Treasurer, out of this year's receipts, \$13,975.81 to offset bills of 1930 paid by him in advance of collections.

The net result of the year's operations shows an increase in Profit and Loss surplus of \$10,771.03. This surplus in the Profit and Loss account does not represent a balance of cash on hand. It is the difference between the totals of the Operating Income and Operating Expense Accounts, plus Income from Other Sources, less Bond and Interest expense, amounts charged off for accounts which are considered uncollectible, sundry credits to the Income Accounts and Merchandise and Jobbing Expense. A comparative statement of Income and Expenses follows, also a summary of Cash Receipts and Disbursements.

COMPARATIVE SUMMARY OF INCOME & EXPENSES

as of

December 31, 1931 and December 31, 1930

| | 1931 | 1930 |
|--|--------------|--------------|
| OPERATING INCOME | \$277,008.61 | \$267,334.56 |
| OPERATING EXPENSES: | | |
| Production | 80,091.66 | 79,977.65 |
| Distribution | 73,548.66 | 68,453.17 |
| Utilization | 10,953.83 | 10,151.88 |
| Commercial | 14,613.15 | 14,433.66 |
| New Business | 2,590.69 | 3,691.30 |
| General and Misc. | 60,479.75 | 57,102.98 |
| TOTAL OPERATING EXPENSES | 242,277.74 | 233,810.64 |
| Operating Rev. before fixed chgs. | 34,730.87 | 33,523.92 |
| FIXED CHARGES | 16,764.10 | 15,948.66 |
| TOTAL OPERATING REVENUE | 17,966.67 | 17,575.26 |
| OTHER CHARGES | 2,270.67 | 1,731.56 |
| NET OPERATING REVENUE | 15,696.10 | 15,843.70 |

OTHER INCOME:

| | | |
|---------------------------------|-----------------|-----------------|
| Merchandise Revenue | 5,043.05 | 2,135.40 |
| Jobbing Revenue | 904.02 | 407.93 |
| Miscellaneous Income | 737.98 | |
| Interest Income | 284.02 | 104.89 |
| TOTAL OTHER INCOME | 4,925.07 | 2,438.44 |
| Net Income | 10,771.03 | 13,405.26 |

SUMMARY OF CASH RECEIPTS AND DISBURSEMENTS

during the period

Jan. 1, 1931 through Dec. 31, 1931

CASH BALANCES JAN. 1, 1931:

| | | |
|---------------------------------|-------------|-------------|
| Operation Fund | none | |
| Depreciation Fund | \$ 1,451.40 | |
| Special Construction Fund | 5,109.12 | |
| Petty Cash Fund | 250.00 | |
| Cash Balance | | \$ 6,810.52 |

CASH RECEIVED:

| | | |
|----------------------------------|--------------|--------------|
| Sale of Electricity | \$263,259.47 | |
| Street Light Appropriation | 13,500.00 | |
| Miscellaneous Receipts | 56,595.83 | |
| Bond Issue 1931 | 40,336.00 | |
| Total Cash Receipts | | \$373,691.30 |
| Total | | \$380,501.82 |

CASH DISBURSED:

| | | |
|--------------------------------|--------------|--------------|
| Operating Accounts | \$272,017.71 | |
| Interest Paid | 3,675.00 | |
| Bonds Paid | 13,000.00 | |
| Additions to Plant | 30,995.11 | |
| Underground Construction | 42,338.97 | |
| Refund to Town Treasurer | 13,975.81 | |
| Total Disbursements | | \$376,002.60 |

Cash Balances, Dec. 31, 1931

| | | |
|---------------------------------|-----------|--|
| Operating Fund | \$ 413.45 | |
| Depreciation Fund | 1,784.40 | |
| Special Construction Fund | 2,051.37 | |
| Petty Cash Fund | 250.00 | |

Total Cash Balance Dec. 31, 1931 \$4,499.22

The cash balances in the Operation Fund, Depreciation Fund and Special Construction Fund are also shown in another part of this report.

New Construction during the year amounted to \$76,546.40, of which \$45,747.92 was the cost of the new underground system in and

around the square. The increases in the various Plant accounts are shown in detail elsewhere in the report.

The amount paid for Construction Accounts during the year was as follows: From the 1930 bond issue \$3,057.75, from the 1931 bond issue \$40,000 and from the Depreciation Fund \$30,276.33.

The classification of customers as of December 31st is shown in the following table:

CLASSIFICATION OF CUSTOMERS AS OF DECEMBER 31, 1931

| | Res. Ltg. | Com. Ltg. | Com. Htg. | Com'rcial Retail | Pow. Wh'sale | Priv. St. | Totals Lts |
|------------------|--------------|--------------|-----------|---------------------|-----------------|--------------|---------------|
| Reading | 2558 | 279 | 50 | 74 | 11 | 11 | 2983 |
| North Reading | 714 | 58 | 19 | 14 | 3 | 6 | 814 |
| Lynnfield Cent'r | 397 | 25 | 9 | 8 | 0 | 0 | 439 |
| Wilmington | 1122 | 102 | 19 | 22 | 0 | 4 | 1269 |
| Totals | 4791 | 464 | 97 | 118 | 14 | 21 | 5505 |

The street lights have been operated during the year the following number of hours: Reading 3934; North Reading and Lynnfield Center 2118 and Wilmington 2105.

The following table shows the number of each size of street lamps renewed during the year:

STREET LAMPS RENEWED BY SIZES

| | 40 C P | 50 Watt | 60 C P | 100 C P | 250 C P | 300 C P | 400 Watt | 600 C P | 1000 C P | Totals |
|-----------------------|-----------|------------|-----------|------------|------------|------------|-------------|------------|-------------|--------|
| Reading | — | — | 679 | 8 | 84 | — | 39 | 11 | 30 | 851 |
| Lynnfield Center | 316 | — | — | — | — | — | — | — | — | 316 |
| North Reading | 558 | — | — | — | — | — | — | — | — | 558 |
| Wilmington | 809 | 30 | — | — | 1 | 15 | — | 2 | — | 857 |
| Totals | 1683 | 30 | 679 | 8 | 85 | 15 | 39 | 13 | 30 | 2582 |

POWER STATION

The generating equipment at the power station has been thoroughly cleaned and re-painted and is in good condition. It has not been used during the year, all current being purchased. The interior walls of the station and the doors and windows have also been painted.

A 60 K. V. A. Street Light Regulator and control panel has been installed for the new lights in the center of the Town.

The feeder voltage regulators installed last year have materially improved the regulation on the feeder circuits.

DISTRIBUTION LINES

We have continued the periodic inspection of pole lines and the renewal of defective poles.

The following tables show the number of each size poles renewed as well as the additional poles set during the year:

SUMMARY OF POLE ADDITIONS AND RENEWALS
COMPARATIVE STATEMENT OF POLE ADDITIONS AND
RENEWALS

| Additions: | 1931 | 1930 | 1929 |
|---------------------------|------|------|------|
| Reading | 54 | 76 | 80 |
| North Reading | 90 | 139 | 55 |
| Lynnfield Center | 37 | 44 | 75 |
| Wilmington | 108 | 118 | 129 |
| Total Additions | 289 | 377 | 339 |
| Renewals: | | | |
| Reading | 228 | 287 | 146 |
| North Reading | 129 | 89 | 86 |
| Lynnfield Center | 46 | 95 | 31 |
| Wilmington | 128 | 120 | 92 |
| Total Renewals | 531 | 591 | 355 |
| Total Poles Handled | 820 | 968 | 694 |

COMPARATIVE STATEMENT OF POLE ADDITIONS AND RE-
NEWALS BY SIZES

| Poles | Additions | | | Renewals | | |
|-------------|-----------|------|------|----------|------|------|
| | 1931 | 1930 | 1929 | 1931 | 1930 | 1929 |
| 25 | — | — | 3 | — | 1 | — |
| 30 | 250 | 265 | 257 | 197 | 90 | 137 |
| 35 | 34 | 57 | 60 | 292 | 424 | 174 |
| 40 | 5 | 55 | 16 | 32 | 58 | 36 |
| 45 | — | — | 2 | 10 | 18 | 8 |
| 50 | — | — | — | — | — | — |
| 55 | — | — | 1 | — | — | — |
| Totals | 289 | 377 | 339 | 531 | 591 | 355 |

The feeder lines to North Reading and Lynnfield have been partially rebuilt and additional wire installed. This work is not yet completed.

Some work on the Wilmington feeders has been done, but the balance of this reconstruction has been delayed pending the rebuilding of the State highway from Wilmington to the Tewksbury line, which is to be done this coming year. The Reading feeders supplying service in the section east of the Square have been removed from Main and Harnden Streets and this section is now supplied from the Washington Street feeders. New feeders have been installed on the Lowell Street and Reading Highlands circuit.

The reconstruction and widening of the State highway from Reading Square to the Andover line made it necessary for us to re-

locate our poles and wires in several places. The total number of poles reset on this line was 137. A considerable amount of wire was also renewed. The cost of this work including labor and materials was \$4,667.15 which was paid from the operation fund.

The power lines have been extended to the new Water Pumping Station at Hundred Acre Meadow, furnishing service for 175 horsepower in motors, which operate this plant.

Approximately 33 miles of overhead wire has been added to the distribution lines during the year.

The wires of overhead distribution systems of necessity pass through many trees and if proper attention is not given to trimming and insulating, service interruptions are certain to occur.

A very thorough trimming job has been done this year under the supervision of the Tree Wardens with the employment of local labor, at an expense of \$5,872.01. Annual inspections are necessary in order to maintain satisfactory service.

UNDERGROUND CONSTRUCTION IN READING SQUARE

In accordance with the vote of the Town at the annual meeting in March, we have installed underground cables and new street lighting units and removed the poles and overhead wires on the following streets: Main Street from Green Street to Salem Street, Salem Street from Harnden Street to Lowell Street, Harnden Street the entire length, Lowell Street from Woburn Street to Sanborn Street, Woburn Street from Harnden Street to the driveway leading to the Municipal Building, and Ash Street from Haven Street to the American Legion Building. Fifty-two poles were removed and approximately 12 miles of overhead wire was taken down.

The underground construction consists of 24,030 feet of Bermico fiber duct and 3,826 feet of steel duct. There are 8 manholes in the main duct line, 2 of which contain duplicate installations of lighting and power transformers; arranged with double throw oil switches to facilitate the restoration of service in case of trouble with either of the transformers or in the underground cable. 75,754 feet of lead covered Anoroc cable is installed in the underground ducts.

A spare feeder circuit has been installed in the duct line, for use in case of trouble on any of the underground feeders. It is connected to the overhead lines at each end through double throw oil switches and can be placed in service by simply operating the switches at each end of the line.

The ornamental street lighting system consists of 46 concrete standards, with aluminum brackets which extend 5 feet from the post. The lighting units are General Electric Form 32 equipped with No.

MANHOLES

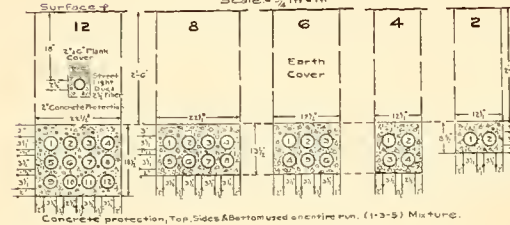
| FROM | TO | DUST INSTALLED | CABLE INSTALL Pkgs | REMARKS | | | |
|------|------|--|--------------------|---------|-------|------|----------|
| Feet | Feet | TYPE | LENGTH | SIZE | VOLTS | | |
| 1 | 2 | 1 | 16.4 | 6-10-13 | 4# | 1000 | 10-13-31 |
| 2 | 3 | 1 | 16.4 | 6-10-13 | 4# | 1000 | 10-13-31 |
| 3 | 4 | 1 | 11.6 | 6-10-13 | 4# | 1000 | 10-13-31 |
| 4 | 5 | 1 | 8.1 | 6-10-13 | 4# | 1000 | 10-13-31 |
| 5 | 6 | 1 | 8.1 | 6-10-13 | 4# | 1000 | 10-13-31 |
| 6 | 7 | 1 | 8.5 | 6-10-13 | 4# | 1000 | 10-13-31 |
| 7 | 8 | 1 | 8.5 | 6-10-13 | 4# | 1000 | 10-13-31 |
| 8 | 9 | 1 | 8.5 | 6-10-13 | 4# | 1000 | 10-13-31 |
| 9 | 10 | 1 | 8.5 | 6-10-13 | 4# | 1000 | 10-13-31 |
| 10 | 11 | 1 | 8.5 | 6-10-13 | 4# | 1000 | 10-13-31 |
| 11 | 12 | 1 | 15.5 | 6-10-13 | 4# | 1000 | 10-13-31 |
| 12 | 13 | 1 | 15.5 | 6-10-13 | 4# | 1000 | 10-13-31 |
| 13 | 14 | 1 | 12.5 | 6-10-13 | 4# | 1000 | 10-13-31 |
| 14 | 15 | 1 | 13.0 | 6-10-13 | 4# | 1000 | 10-13-31 |
| 15 | 16 | 1 | 16.5 | 6-10-13 | 4# | 1000 | 10-13-31 |
| 16 | 17 | 1 | 11.1 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 17 | 18 | 1 | 17.1 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 18 | 19 | 1 | 19.6 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 19 | 20 | Completed from June 1958, 1958 # 02 February - 1958 (11.1) m Conduit | | | | | |
| 20 | 21 | 1 | 11.1 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 21 | 22 | 1 | 11.1 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 22 | 23 | 1 | 10.6 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 23 | 24 | 1 | 13.7 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 24 | 25 | 1 | 13.7 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 25 | 26 | 1 | 10.6 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 26 | 27 | 1 | 11.0 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 27 | 28 | 1 | 11.5 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 28 | 29 | 1 | 13.7 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 29 | 30 | 1 | 11.5 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 30 | 31 | 1 | 9.5 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 31 | 32 | 1 | 7.54 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 32 | 33 | 1 | 6.1 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 33 | 34 | 1 | 6.1 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 34 | 35 | 1 | 7.2 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 35 | 36 | 1 | 9.5 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 36 | 37 | 1 | 8.1 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 37 | 38 | 1 | 8.5 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 38 | 39 | 1 | 10.6 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 39 | 40 | 1 | 8.1 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 40 | 41 | 1 | 7.2 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 41 | 42 | 1 | 10.6 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 42 | 43 | 1 | 10.6 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 43 | 44 | 1 | 8.05 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 44 | 45 | 1 | 11.6 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 45 | 46 | 1 | 18.1 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 46 | 47 | 1 | 19.3 | 7-11-21 | 4# | 1000 | 10-13-31 |
| 47 | 48 | 1 | 10.6 | 7-11-21 | 4# | 1000 | 10-13-31 |

1931 Construction
Scale:- lin. = 40 ft.
Davis & Abbott +
Civil Engineers; Reading, Mass.

| NO | SHAPE | WIDE SIDE W - L - H | CONSTRUCTION SKULLS | ROOF FLOOR | COVER SHADE | HEIGHT MARK. OPENING | SHAPE | DATE | REMARKS |
|----|-------|------------------------|------------------------|---------------|----------------|-------------------------|-------|---------|---------------|
| 1 | Rect | 2' x 7' x 7' | conc | conc | conc | 20 ft | --- | 6-10-53 | |
| 2 | " | 2' x 7' x 7' | " | " | " | " | --- | 6-11-53 | |
| 3 | " | 2' x 7' x 7' | " | " | " | " | --- | 6-18-53 | |
| 4 | " | 3' x 7' x 7' | " | " | " | " | --- | 6-18-53 | |
| 5 | " | 6' x 10' x 10' | " | " | " | " | Rect. | 6-11-53 | |
| 6 | " | 6' x 10' x 10' | " | " | " | " | " | 6-25-53 | Water Proofed |
| 7 | " | 3' x 7' x 7' | " | " | " | " | --- | 6-29-53 | |
| 8 | " | 3' x 7' x 7' | " | " | " | " | --- | 6-13-53 | |

Conduit Construction:-
Robert C. Allen Construction Co.
Cable Installation:-
James Sugden Company
Consultant:-
Arthur G. Sias
Engineers:-
Davis & Abbott

Scale:- $\frac{3}{4}$ in = 1 ft



Totals:-
 S, 780.4 Lin Ft 2 1/2" Fiber Duct, with Plank Cover.
 371.7 " " " " & Single Conductor Parkway Cable.
 184.5 " " " " 1 1/2" Iron Conduit, containing part of above Parkway Cable.
 46 Ornamental Street Lamp Posts.

MAIN CONDUIT

| FROM | TO | 3" FIBER DUCT | REMARKS |
|---------|----------|---------------|---------|
| M.H. 1 | M.H. 2 | 100.0 | |
| M.H. 2 | M.H. 3 | 100.0 | |
| M.H. 3 | M.H. 4 | 100.0 | |
| M.H. 4 | M.H. 5 | 100.0 | |
| M.H. 5 | M.H. 6 | 100.0 | |
| M.H. 6 | M.H. 7 | 100.0 | |
| M.H. 7 | M.H. 8 | 100.0 | |
| M.H. 8 | M.H. 9 | 100.0 | |
| M.H. 9 | M.H. 10 | 100.0 | |
| M.H. 10 | M.H. 11 | 100.0 | |
| M.H. 11 | M.H. 12 | 100.0 | |
| M.H. 12 | M.H. 13 | 100.0 | |
| M.H. 13 | M.H. 14 | 100.0 | |
| M.H. 14 | M.H. 15 | 100.0 | |
| M.H. 15 | M.H. 16 | 100.0 | |
| M.H. 16 | M.H. 17 | 100.0 | |
| M.H. 17 | M.H. 18 | 100.0 | |
| M.H. 18 | M.H. 19 | 100.0 | |
| M.H. 19 | M.H. 20 | 100.0 | |
| M.H. 20 | M.H. 21 | 100.0 | |
| M.H. 21 | M.H. 22 | 100.0 | |
| M.H. 22 | M.H. 23 | 100.0 | |
| M.H. 23 | M.H. 24 | 100.0 | |
| M.H. 24 | M.H. 25 | 100.0 | |
| M.H. 25 | M.H. 26 | 100.0 | |
| M.H. 26 | M.H. 27 | 100.0 | |
| M.H. 27 | M.H. 28 | 100.0 | |
| M.H. 28 | M.H. 29 | 100.0 | |
| M.H. 29 | M.H. 30 | 100.0 | |
| M.H. 30 | M.H. 31 | 100.0 | |
| M.H. 31 | M.H. 32 | 100.0 | |
| M.H. 32 | M.H. 33 | 100.0 | |
| M.H. 33 | M.H. 34 | 100.0 | |
| M.H. 34 | M.H. 35 | 100.0 | |
| M.H. 35 | M.H. 36 | 100.0 | |
| M.H. 36 | M.H. 37 | 100.0 | |
| M.H. 37 | M.H. 38 | 100.0 | |
| M.H. 38 | M.H. 39 | 100.0 | |
| M.H. 39 | M.H. 40 | 100.0 | |
| M.H. 40 | M.H. 41 | 100.0 | |
| M.H. 41 | M.H. 42 | 100.0 | |
| M.H. 42 | M.H. 43 | 100.0 | |
| M.H. 43 | M.H. 44 | 100.0 | |
| M.H. 44 | M.H. 45 | 100.0 | |
| M.H. 45 | M.H. 46 | 100.0 | |
| M.H. 46 | M.H. 47 | 100.0 | |
| M.H. 47 | M.H. 48 | 100.0 | |
| M.H. 48 | M.H. 49 | 100.0 | |
| M.H. 49 | M.H. 50 | 100.0 | |
| M.H. 50 | M.H. 51 | 100.0 | |
| M.H. 51 | M.H. 52 | 100.0 | |
| M.H. 52 | M.H. 53 | 100.0 | |
| M.H. 53 | M.H. 54 | 100.0 | |
| M.H. 54 | M.H. 55 | 100.0 | |
| M.H. 55 | M.H. 56 | 100.0 | |
| M.H. 56 | M.H. 57 | 100.0 | |
| M.H. 57 | M.H. 58 | 100.0 | |
| M.H. 58 | M.H. 59 | 100.0 | |
| M.H. 59 | M.H. 60 | 100.0 | |
| M.H. 60 | M.H. 61 | 100.0 | |
| M.H. 61 | M.H. 62 | 100.0 | |
| M.H. 62 | M.H. 63 | 100.0 | |
| M.H. 63 | M.H. 64 | 100.0 | |
| M.H. 64 | M.H. 65 | 100.0 | |
| M.H. 65 | M.H. 66 | 100.0 | |
| M.H. 66 | M.H. 67 | 100.0 | |
| M.H. 67 | M.H. 68 | 100.0 | |
| M.H. 68 | M.H. 69 | 100.0 | |
| M.H. 69 | M.H. 70 | 100.0 | |
| M.H. 70 | M.H. 71 | 100.0 | |
| M.H. 71 | M.H. 72 | 100.0 | |
| M.H. 72 | M.H. 73 | 100.0 | |
| M.H. 73 | M.H. 74 | 100.0 | |
| M.H. 74 | M.H. 75 | 100.0 | |
| M.H. 75 | M.H. 76 | 100.0 | |
| M.H. 76 | M.H. 77 | 100.0 | |
| M.H. 77 | M.H. 78 | 100.0 | |
| M.H. 78 | M.H. 79 | 100.0 | |
| M.H. 79 | M.H. 80 | 100.0 | |
| M.H. 80 | M.H. 81 | 100.0 | |
| M.H. 81 | M.H. 82 | 100.0 | |
| M.H. 82 | M.H. 83 | 100.0 | |
| M.H. 83 | M.H. 84 | 100.0 | |
| M.H. 84 | M.H. 85 | 100.0 | |
| M.H. 85 | M.H. 86 | 100.0 | |
| M.H. 86 | M.H. 87 | 100.0 | |
| M.H. 87 | M.H. 88 | 100.0 | |
| M.H. 88 | M.H. 89 | 100.0 | |
| M.H. 89 | M.H. 90 | 100.0 | |
| M.H. 90 | M.H. 91 | 100.0 | |
| M.H. 91 | M.H. 92 | 100.0 | |
| M.H. 92 | M.H. 93 | 100.0 | |
| M.H. 93 | M.H. 94 | 100.0 | |
| M.H. 94 | M.H. 95 | 100.0 | |
| M.H. 95 | M.H. 96 | 100.0 | |
| M.H. 96 | M.H. 97 | 100.0 | |
| M.H. 97 | M.H. 98 | 100.0 | |
| M.H. 98 | M.H. 99 | 100.0 | |
| M.H. 99 | M.H. 100 | 100.0 | |
| Totals | | 500.0 | 500.0 |

Totals:-
5,780.4 Lin Ft 2 1/2" Fiber Duct, with Plank cover.
371.7 " " 11 # 8 Single Conductor Railway Cable.
184.2 " " 1 1/2" Iron Conduit, containing part of above Parkway Cable.
4.6 Ornamental Street Lamp Posts.

The map shows a grid of streets including Main St., Green St., Ash St., Haven St., Chapin Ave., Union St., and Salem St. Buildings such as the Lyceum Hall Association, Center School, and Old South M.E. Church are labeled. Utility lines for fiber duct, railway cable, and iron conduit are shown with various specifications and measurements. Street light poles and primary power lines are also indicated. A table in the top left corner provides a summary of the utility work, and a list of totals is provided in the top right corner.

162 medium alabaster globes and 1000 candle power lamps suspended 20 feet above the street.

Each post is arranged for a cutout in the base so that the lamp may be disconnected from the circuit in case of trouble.

The new street lighting circuit runs direct to the power station and is connected to a regulating transformer with 20 ampere coils, thereby eliminating the use of insulating coils in the lamps or posts.

The cost of the underground construction, including the ornamental street lighting, was as follows:

| | |
|----------------------------------|-------------|
| Ducts and Manholes | \$20,622.74 |
| Cables and Installation | 14,767.03 |
| Service Connections | 1,243.04 |
| Ornamental Street Lights | 8,476.58 |
| Engineering and Plans | 638.53 |
| <hr/> | |
| Total Cost | \$45,747.92 |
| Estimated Cost | \$43,070.06 |
| <hr/> | |
| Cost in excess of estimate | \$2,677.86 |

The following is a list of the firms who furnished material and labor for the underground construction:

| | | |
|----------------------------------|-----------|---------------------------------|
| Graybar Electric Company | Boston | Fiber Duct |
| Geo. H. Buckminster Co. | Boston | Steel Duct |
| Simplex Wire & Cable Co. | Cambridge | Lead Cable |
| Westinghouse Electric & Mfg. Co. | Boston | Transformers |
| Allis-Chalmers Mfg. Co. | Boston | Transformers |
| Condit Elec. Mfg. Co. | Boston | Oil Switches |
| F. S. Hardy & Co. | Boston | Potheads |
| George H. Wahn Company | Boston | Concrete posts and brackets |
| General Electric Supply Corp. | Boston | Lighting units and cutouts |
| Wetmore-Savage E. S. Co. | Boston | Regulator and Panel |
| Mechanics Iron Foundry Co. | Boston | Manhole Frames and Covers |
| Wendell Bancroft & Co. | Reading | Brick, Cement and Plank |
| Fred F. Smith | Reading | Compound and Plank |
| R. C. Allen Construction Co. | Worcester | Conduits and Manholes |
| James Sugden Company | Boston | Installing Cable and Lamp posts |
| Clapp & Leach, Inc. | Reading | Building Connections |
| Davis & Abbott | Reading | Engineering and Plans |
| George W. Ellis Co., Inc. | Boston | Removing old poles |
| The Edison Elec. Ill. Co. | Boston | Testing Cables |

On the following pages are cuts showing the appearance of Reading Square before and after the removal of the poles and overhead construction, also a cut showing the layout of the underground system.

STREET LIGHTING

We have installed 34 additional lights during the year, of which 25 were installed on the following streets in Reading: Haverhill Street 4, Pleasant Street 1, Ash Street 1, Bond Street 1, West Street 1, Scotland Road 1, Winthrop Avenue 1, Walnut Street 2, and Reading Square 13.

The following lights on private streets, which have been accepted by the Town, have now been made public lights: Shackford Road 1, Wells Road 1, Pinevale Avenue 2, and Glen Road 1, a total of 5 public lights added.

The lighting on Salem Street from Harnden Street to the Wakefield line has been improved by the installation of 16 new type Wheeler fixtures with diffusing globes and 250 candle power lamps.

Further improvements are planned for the coming year on Main Street, from the square to the North Reading Line, and on Woburn Street the entire length.

METERS

We have added to our system 239 meters during the year, and have completed the periodic inspection and test of meters in consumers premises.

Frequent inspections and tests are made on all power meters in order to guard against loss of revenue.

A record of inspections and tests is shown below:

| | |
|--|-----|
| Meters tested in meter room | 975 |
| Periodic tests of lighting meters in consumers premises | 708 |
| Periodic tests of power meters in consumers premises | 56 |
| Meters tested at request of customers | 80 |
| Investigations on complaints, etc. | 83 |
| Monthly inspection of power meters | 330 |
| Number of meters repaired | 92 |

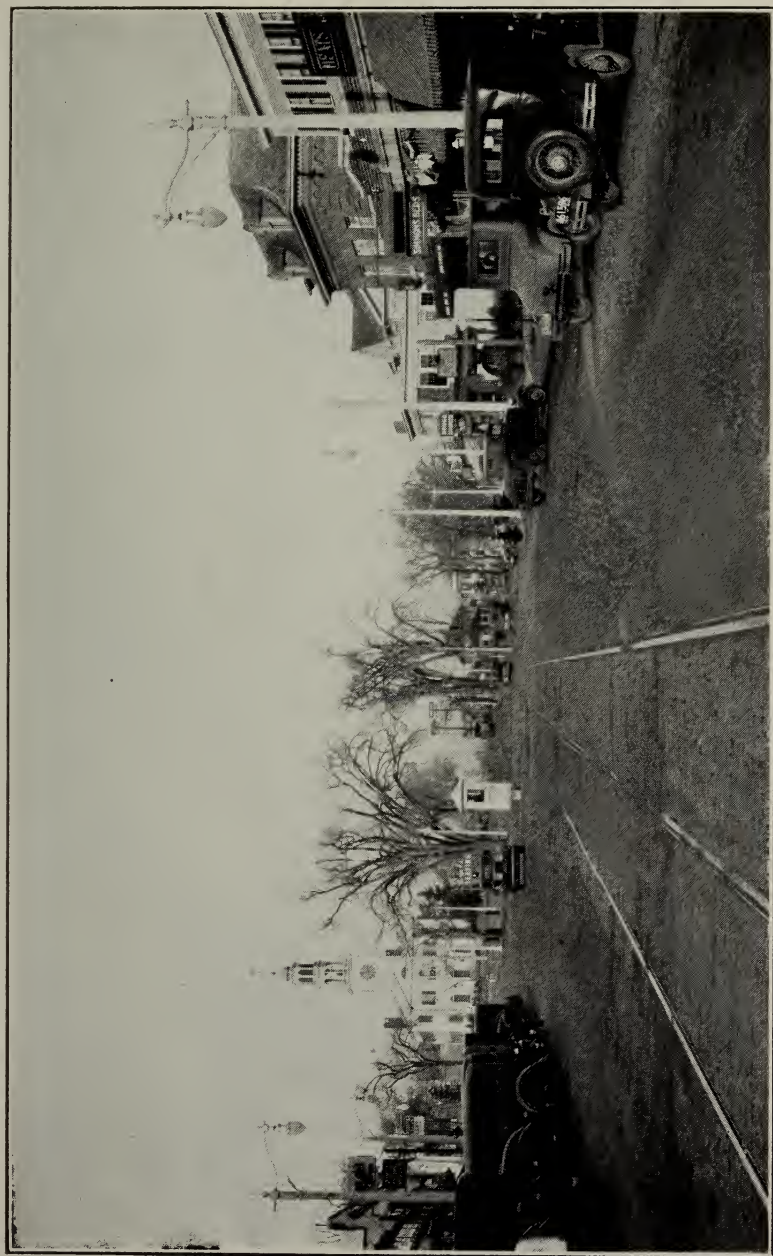
LAMP AND APPLIANCE DEPARTMENT

The sales of lamps and appliances dropped off about 12.5 per cent from last year's business.

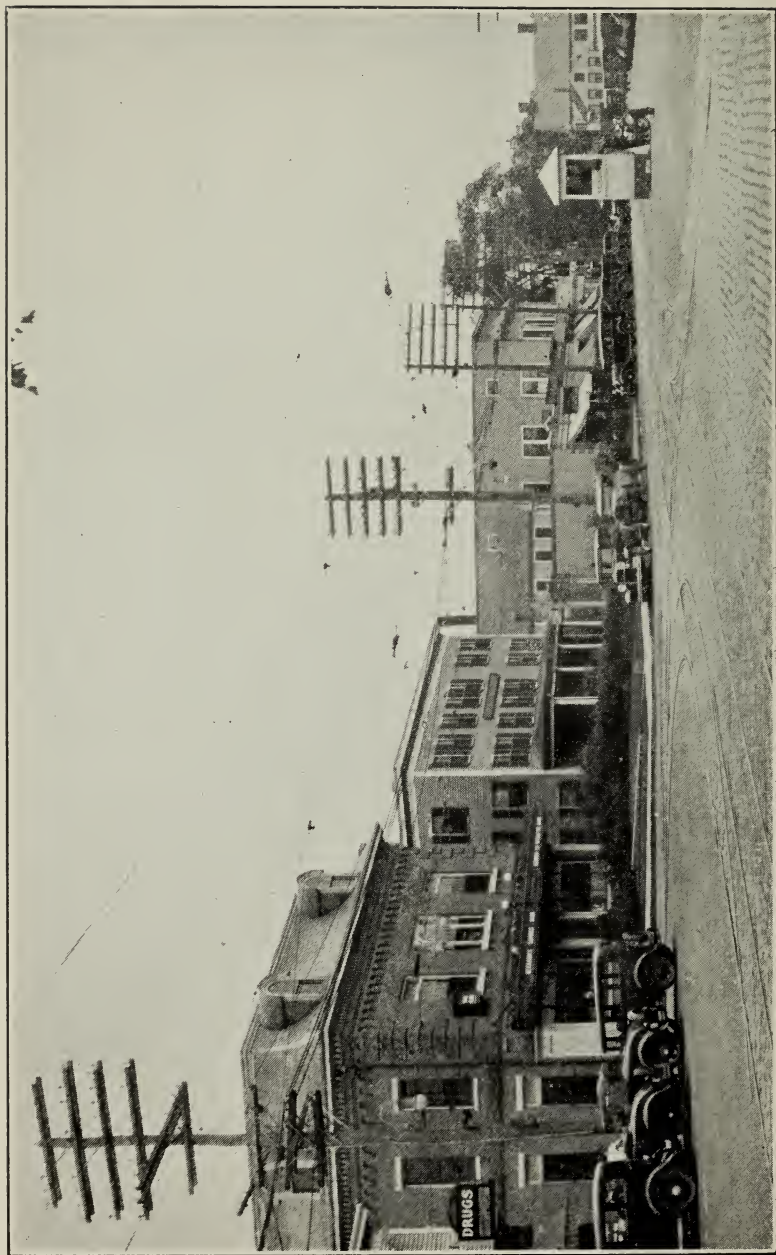
The gross sales amounted to \$38,027.72 and the estimated annual revenue for current used by the appliances is \$6,370.76.

The number of ranges connected to our service is increasing steadily each year. During the past year the number was increased by 80, of which 61 were purchased through this Department. The total number of ranges connected to our lines is approximately 800.

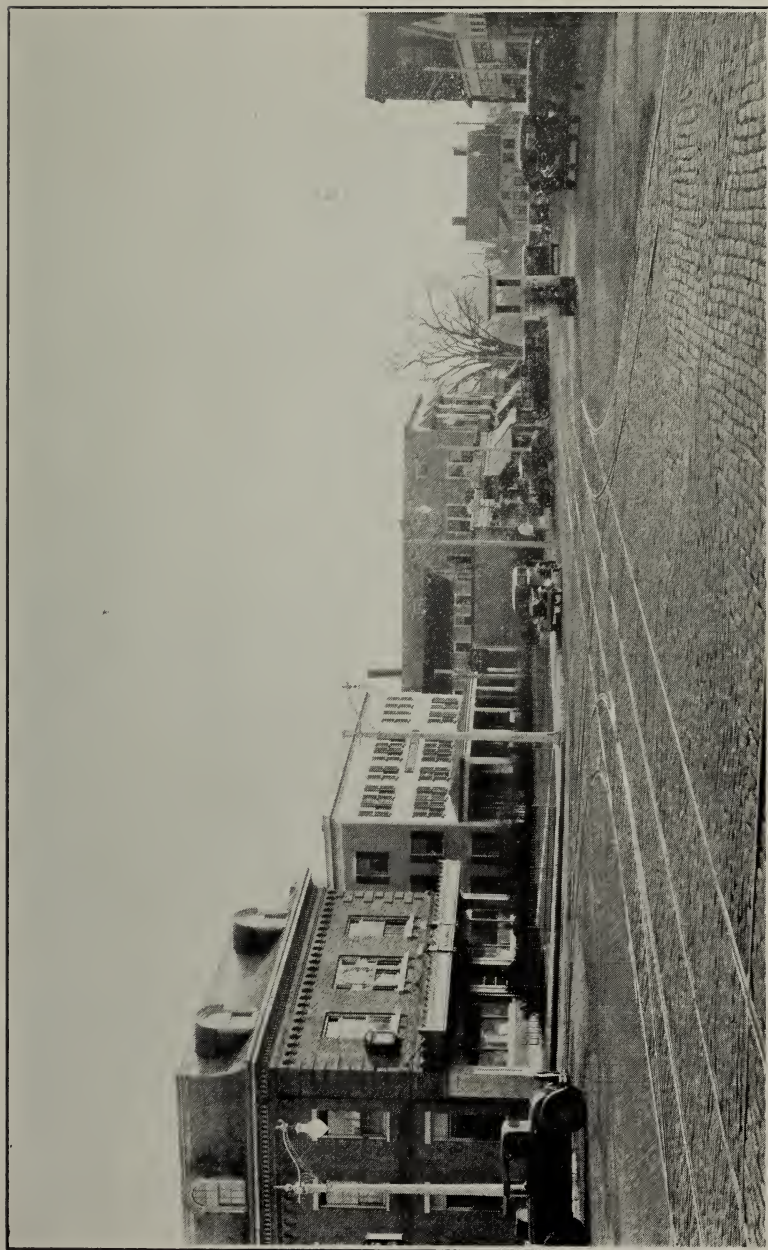
The modern electric range has beauty, speed and durability and is a valuable addition to any kitchen. It is clean and convenient and with our very low rates for service is extremely economical.



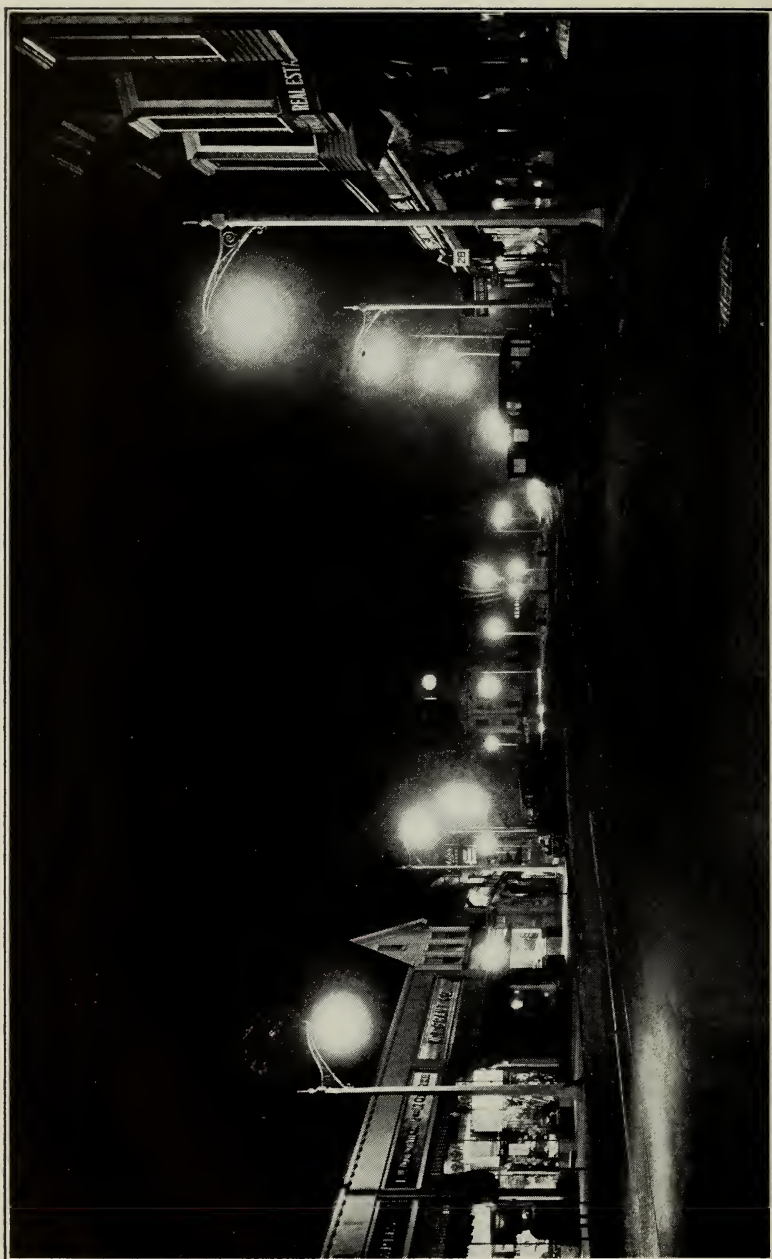
Reading Square (looking North) showing new lighting units with poles and wires removed.



Main Street (looking South) before removal of poles and wires.



Main Street (looking South) with new lighting units, poles and wires removed.



Night illumination of Reading Square with new lighting units.

CHRISTMAS DECORATIONS

Decorative lights were installed during the Christmas season on the streets in the center of the Town and on the parks and Public Buildings. In all 5,378 lamps were lighted for about two weeks, the cost, including current and lamp renewals, being approximately \$1,000.

UNEMPLOYMENT RELIEF

During the past year this Department has employed at various times 25 Reading citizens who were temporarily out of work.

The additional payroll on account of this extra labor amounted to \$8,834.33.

FUTURE IMPROVEMENTS

In my report of last year I mentioned the matter of a new switchboard at the Power Station which, together with an addition to the building, was estimated to cost \$33,000. Articles were inserted in the warrant in order to bring the matter before the voters and the action was to indefinitely postpone.

An alternate plan has been suggested which, while not in all respects as desirable, would serve the purpose.

The new plan contemplates making use of the panels in the present switchboard as control panels, each panel serving as a control for two feeder circuits. The oil switches would be installed in compartments at the north end of the station and in the present building, with the feeder regulators installed above them on a concrete platform. The feeder lines would be brought in through the basement in ducts from a structure outside the building until such time as the undergrounds ducts are laid between the station and Green Street.

The labor and material to be used inside the building is estimated to cost about \$21,000.

During the past year an opportunity was offered to purchase a sufficient number of 4000 volt oil switches for this job at a saving of nearly \$3,000. These switches were purchased and are now in the power station.

I recommend that this plan be adopted and that a start be made on the project this coming year, the cost of same to be paid from the Depreciation Fund. It will probably be possible, with the funds which will be available during this year and next, to complete the job by the end of 1933 without asking for a special appropriation.

With the completion of the underground distribution and ornamental street light installation in the Square and the consequent improvement in the lighting and also the general appearance of the streets, comes a request from the merchants on Haven Street for a like improvement on that street, which will cost, if all poles and wires are removed, in the vicinity of \$20,000.

If this matter comes before the voters and favorable action is taken, I recommend that the project be financed by a bond issue of \$18,000.00 payable \$2,000 per year for nine years.

I submit herewith my estimate of the expenses and income of the plant, for the fiscal year ending December 31, 1932, as required by statute.

ESTIMATE FOR 1932

Expenses

| | |
|---|---------------------|
| For Operation, Maintenance and Repairs | \$211,648.81 |
| For Interest on Bonds | 3,772.50 |
| For Depreciation at 4% on Cost of Plant | 33,671.19 |
| For Bond Payments | 15,000.00 |
| For Taxes | 2,000.00 |
| For Uncollectible Operating Revenue | 2,000.00 |
| Total Expenses | \$268,092.50 |

Income

| | |
|---|---------------------|
| From Sales to Private Consumers | \$274,000.00 |
| From Interest on Consumers Deposits | 100.00 |
| From Tax Levy: | |
| For Street Lights | 15,960.00 |
| For Municipal Departments | 6,500.00 |
| Total Income | \$296,560.00 |

The following financial data is shown below: Plant Investment accounts, Total Cost of Plant, Value of Materials and Supplies on hand, and a statement of the various funds. This is followed by tables showing data from the records of the plant, a list of bills remaining unpaid at the end of the year and a schedule of the bonded employees of the Department.

The report of the auditor, which is appended, hereto, covers in detail the financial statement taken from the books.

Respectfully submitted,

ARTHUR G. SIAS

Manager

The reports of the Manager and Auditor as herewith submitted are hereby approved.

HENRY R. JOHNSON

HERBERT G. EVANS

HARRY P. BAKER

Municipal Light Board

PLANT INVESTMENT ACCOUNTS—ELECTRIC

PLANT INVESTMENT:

| | Balance Jan. 1, 1931 | 1931 Additions | 1931 Deprec. | Balance Dec. 31, 1931 |
|--------------------------------------|----------------------------|-------------------|-----------------|-----------------------------|
| Land | \$ 2,575.80 | ..... | ..... | \$ 2,575.80 |
| Structures | 20,900.09 | ..... | 550.60 | 20,349.49 |
| Structures—Garage | 15,175.47 | ..... | 334.45 | 14,841.02 |
| Boiler Plant Equipment | 25,100.78 | ..... | 2,787.87 | 22,312.91 |
| Prime Movers and Aux. | 10,484.81 | ..... | 1,160.54 | 9,324.27 |
| Turbo Gen. Units | 16,220.15 | ..... | 1,874.83 | 14,345.32 |
| Electric Plant—Steam | 32,478.68 | 1,291.45 | 2,186.31 | 31,583.82 |
| Poles, Fixt. and Overhead Cond. | 223,358.20 | 22,297.80 | 14,898.89 | 230,757.11 |
| Underground Conduits | none | 21,261.27 | ..... | 21,261.27 |
| Underground Conductors | none | 16,010.07 | ..... | 16,010.07 |
| Consumers' Meters | 39,336.50 | 1,515.75 | 2,503.95 | 38,343.30 |
| Consumers' Meters Install. | 6,520.11 | 391.00 | 383.58 | 6,527.53 |
| Line Transformers | 40,223.75 | 4,928.94 | 2,567.89 | 42,584.80 |
| Line Transformers Install. | 4,283.96 | 254.50 | 281.32 | 4,257.14 |
| Street Lighting Equipment | 8,164.72 | 8,595.62 | 1,056.94 | 15,703.40 |
| Consumers' Premises Equip. | 179.69 | ..... | 17.16 | 162.53 |

Total Plant Investment \$445,002.71 \$76,546.40 \$30,609.33 \$490,939.78

GENERAL EQUIPMENT

| | | | | |
|--------------------------------|-------------|-----------|----------|-------------|
| Office Equipment | \$ 8,426.31 | \$ 132.03 | \$ 66.83 | \$ 8,491.56 |
| Stores Equipment | 596.16 | 63.42 | ..... | 659.58 |
| Transportation Equipment | 5,961.00 | 200.00 | 2,132.00 | 4,029.00 |
| Laboratory Equipment | 1,384.42 | 11.14 | ..... | 1,395.56 |
| Miscellaneous Equipment | 2,035.38 | 60.17 | 237.37 | 1,858.18 |

Total General Equipment \$ 18,403.27 \$ 466.81 \$ 2,436.20 \$ 16,433.88

Unfinished Construction \$ \$ 135.00 \$ \$ 135.00

Grand Total \$463,405.98 \$ 77,148.21 \$ 33,045.53 \$507,508.66

TOTAL COST OF PLANT
as of December 31, 1931.

| | | |
|---|---------------|----------------------|
| Cost of Land | \$ 2,575.80 | |
| Cost of Structures | 44,252.47 | \$ 46,828.27 |
| <hr/> | | |
| Generating Plant—Steam: | | |
| Cost of Boiler Plant Equipment | \$ 69,695.71 | |
| Cost of Prime Movers & Auxiliaries | 29,013.38 | |
| Cost of Turbo Generator Units | 46,870.83 | |
| Cost of Electric Plant—Steam | 55,948.82 | \$ 201,529.74 |
| <hr/> | | |
| Transmission, Distribution and Storage: | | |
| Cost of Poles, Fixt. & Overhead Cond. | \$ 372,644.71 | |
| Cost of Underground Conduits | 21,261.27 | |
| Cost of Underground Conductors | 16,010.07 | |
| Cost of Consumers' Meters | 64,239.50 | |
| Cost of Consumers' Meters Installation .. | 9,980.40 | |
| Cost of Line Transformers | 69,126.17 | |
| Cost of Transformers Installation | 7,287.38 | \$ 560,549.50 |
| <hr/> | | |
| Utilization Equipment: | | |
| Cost of Street Lighting Equipment | \$ 35,019.02 | |
| Cost of Consumer's Premises Equipment .. | 428.99 | \$ 35,448.01 |
| <hr/> | | |
| Total Cost of Electric Plant as shown by Books | | \$ 844,355.52 |

COST OF DISTRIBUTION SYSTEM IN OUTSIDE TOWNS
NORTH READING

Total Investment December 31, 1931:

| | | |
|---|--------------|--------------|
| Poles, Fixtures and Overhead Cond. | \$ 69,913.32 | |
| Consumers' Meters | 9,869.20 | |
| Line Transformers | 7,797.72 | |
| Street Lighting Equipment | 2,949.50 | \$ 90,529.74 |

LYNNFIELD CENTER

Total Investment December 31, 1931:

| | | |
|---|--------------|--------------|
| Poles, Fixtures and Overhead Cond. | \$ 31,035.80 | |
| Consumers' Meters | 5,065.89 | |
| Line Transformers | 2,803.51 | |
| Street Lighting Equipment | 1,822.77 | \$ 40,777.97 |

WILMINGTON

Total Investment December 31, 1931:

| | | |
|---|---------------|--|
| Poles, Fixtures and Overhead Cond. | \$ 111,110.18 | |
| Consumers' Meters | 14,820.55 | |

| | | |
|---|----------|---------------------|
| Line Transformers | 9,295.53 | |
| Street Lighting Equipment | 4,305.63 | \$ 139,531.89 |
| Total Investment—Outside Towns | | \$270,839.60 |
| Income—Outside Towns | | \$103,245.71 |

MATERIALS AND SUPPLIES

| | |
|------------------------------|---------------------|
| Materials and Supplies | \$ 38,004.69 |
| Electrical Appliances | 19,834.93 |
| Coal | 613.67 |
| Oil and Supplies | 436.88 |
| Total | \$ 58,890.17 |

CASH BALANCES AT CLOSE OF YEAR PETTY CASH FUND

| | |
|--------------------------------|-----------|
| Petty Cash due Treasurer | \$ 250.00 |
|--------------------------------|-----------|

OPERATION FUND DEBITS

| | | |
|--|---------------------|---------------------|
| Balance at beginning of year | \$ 13,975.81 | |
| Received from Sale of Electricity | 263,259.47 | |
| Received from Appropriations for Street Lights | 13,500.00 | |
| Received from Miscellaneous Items | 56,931.83 | |
| Total Debits | | \$319,715.49 |

CREDITS

| | | |
|--|--------------|---------------------|
| Expenditures for Operating Accounts | \$272,017.71 | |
| Bonds Paid | 13,000.00 | |
| Interest Paid | 3,675.00 | |
| Amount Transferred to Depreciation Fund | 30,609.33 | |
| Total Credits | | \$319,302.04 |
| Balance December 31, 1931 | | \$ 413.45 |

DEPRECIATION FUND DEBITS

| | |
|---|---------------------|
| Balance of Account at beginning of year | \$ 1,451.40 |
| Amount Transferred from Income | 30,609.33 |
| Total | \$ 32,060.73 |

CREDITS

| | |
|---|--------------|
| Amount Expended for Construction Purposes.. | \$ 30,276.33 |
| Balance on Hand at Close of Year | 1,784.40 |

SPECIAL CONSTRUCTION FUND—APPROPRIATION 1930

| | |
|---|-------------|
| Balance on hand December 31, 1930 | \$ 5,109.12 |
| Expenditures during year 1931: | |
| Poles, Fixtures, etc. Reading | \$ 746.15 |
| Poles, Fixtures, etc. Lynnfield Center | 1,144.19 |

| | | |
|---|----------|----------|
| Poles, Fixtures, etc. North Reading | 1,068.41 | |
| Bonds Issue Expense | 99.00 | 3,057.75 |
| Balance on hand December 31, 1931 | | 2,051.37 |

SPECIAL CONSTRUCTION FUND—APPROPRIATION 1931

| | | |
|---|--------------|--------------|
| Appropriation | | \$ 40,000.00 |
| Expenditures: | | |
| Underground Conduits—Reading | \$ 19,350.32 | |
| Underground Conductors—Reading | 14,548.78 | |
| Street Lighting Equipment—Reading | 8,439.87 | 42,338.97 |
| Paid from Depreciation | | 2,338.97 |
| Balance | | none |

DATA FROM RECORDS OF PLANT

| | |
|---|-----------|
| Kilowatt Hours Manufactured | None |
| Kilowatt Hours Purchased | 6,885,880 |
| Kilowatt Hours for Reading Street Lights | 324,162 |
| Kilowatt Hours Sold | 5,640,426 |
| Kilowatt Hours Used at Station and Office | 52,634 |
| Kilowatt Hours Used for Christmas Decorations | 10,788 |
| Kilowatt Hours Unaccounted for | 857.870 |
| Coal Used—Net Tons | 145.8 |
| Average Cost of Coal per Net Ton | \$5.04 |
| Poles Added | 289 |
| Poles Renewed | 531 |
| Feet of Wire Added | 175,407 |
| New Services Installed | 296 |
| New Street Lamps Installed | 34 |
| Feet of Underground Cable Added | 69,701 |
| Feet of Underground Conduits Installed | 11,907 |
| Lineal Feet of Duct Installed | 27,904 |
| Transformers Added | 5 |
| Meters Added | 239 |

Connected Load December 31, 1931

| | |
|---------------------------------------|-------|
| Number of Customers | 5,487 |
| Horse Power in Motors | 2,527 |
| Number of Public Street Lights | 1,762 |
| Number of Private Street Lights | 21 |

CONSTRUCTION FUND

DEBITS

| | | |
|--|--------------|---------------------|
| Balance at Beginning of Year | | none |
| Transferred from Depreciation Fund | \$ 30,276.33 | |
| Total | | \$ 30,276.33 |

CREDITS

| | |
|--|--------------|
| Amount Expended for Additions and Extensions | \$ 27,937.36 |
| Amount Expended for Underground Work | 2,338.97 |

| | |
|--------------------------------|--------------|
| Total | \$ 30,276.33 |
| Balance at Close of Year | none |

READING

| | |
|--|--------------|
| Number of Customers December 31, 1931 | 2,975 |
| Number of 40 candle power public street lights ..... | ..... |
| Number of 60 candle power public street lights | 555 |
| Number of 100 candle power public street lights | 13 |
| Number of 250 candle power public street lights | 82 |
| Number of 400 candle power public street lights | 31 |
| Number of 600 candle power public street lights | 1 |
| Number of 1000 candle power public street lights | 73 |
| Number of 60 candle power private street lights | 8 |
| Number of 100 candle power private street lights | 3 |
| Number of 250 candle power private street lights | 0 |
| Horse Power in Motors | 2,277½ |
| Income for year | \$173,513.76 |

LYNNFIELD CENTER

| | |
|---|-------------|
| Number of Customers December 31, 1931 | 439 |
| Number of 40 candle power public street lights | 169 |
| Number of 40 candle power private street lights | 0 |
| Horse Power in Motors | 34¾ |
| Income for year | \$17,356.37 |

NORTH READING

| | |
|---|-------------|
| Number of Customers December 31, 1931 | 808 |
| Number of 40 candle power public street lights | 313 |
| Number of 40 candle power private street lights | 6 |
| Horse Power in Motors | 119½ |
| Income for year | \$32,180.79 |

WILMINGTON

| | |
|---|-------------|
| Number of Customers December 31, 1931 | 1,265 |
| Number of 40 candle power public street lights | 497 |
| Number of 50 watt public street lights | 15 |
| Number of 300 watt public street lights | 8 |
| Number of 600 candle power public street lights | 5 |
| Number of 40 candle power private street lights | 4 |
| Horse Power in Motors | 95¼ |
| Income for year | \$53,205.57 |

TABLE A

| Year | Income from Sale of Electricity | Income from Other Sources | Appropriations from Tax Levy for Street Lights | Appropriations from Tax Levy | Construction | Production Expense | Distribution and Utilization Expense | Miscellaneous Expense | Interest | Depreciation | Bond and Note Payments | Total Cost of Plant December 31 |
|------|---------------------------------------|------------------------------|---|---------------------------------|--------------|-----------------------|--|--------------------------|------------|--------------|---------------------------|---------------------------------------|
| 1910 | \$25,668.87 | \$ 604.88 | \$10,000.00 | \$ 270.00 | \$13,228.57 | \$3,271.76 | \$4,429.32 | \$2,535.75 | \$3,556.00 | \$4,000.00 | \$135,992.62 | |
| 1911 | 31,317.40 | 410.77 | 5,800.00 | 1,000.00 | 13,066.25 | 6,353.77 | 5,753.84 | 2,767.00 | 4,079.78 | 4,500.00 | 144,714.06 | |
| 1912 | 37,171.93 | 599.07 | 5,000.00 | 5,500.00 | 17,546.87 | 5,605.41 | 5,605.18 | 3,018.21 | 4,143.80 | 7,200.00 | 173,091.96 | |
| 1913 | 44,664.70 | 671.87 | 6,000.00 | 5,076.19 | 20,054.99 | 10,705.42 | 10,214.88 | 3,515.40 | 4,788.80 | 6,800.00 | 202,518.81 | |
| 1914 | 49,799.75 | 791.14 | 4,500.00 | 4,132.07 | 19,014.03 | 7,784.82 | 8,697.05 | 4,453.33 | 6,051.08 | 9,000.00 | 233,509.58 | |
| 1915 | 51,603.32 | 640.25 | 10,500.00 | none | 18,292.78 | 10,329.83 | 7,730.32 | 4,640.42 | 6,972.28 | 9,500.00 | 254,349.09 | |
| 1916 | 61,900.01 | 911.69 | 5,000.00 | none | 22,261.19 | 13,986.22 | 8,316.39 | 4,704.99 | 7,597.47 | 10,800.00 | 269,898.27 | |
| 1917 | 67,593.64 | 2,422.92 | 8,750.00 | none | 30,460.16 | 14,557.81 | 11,577.08 | 5,070.43 | 8,096.95 | 11,300.00 | 285,428.29 | |
| 1918 | 78,096.09 | 1,537.86 | 11,000.00 | none | 41,006.13 | 13,572.51 | 11,311.54 | 6,882.24 | 8,529.85 | 14,800.00 | 348,871.08 | |
| 1919 | 100,844.10 | 1,100.11 | 14,450.00 | none | 45,006.98 | 13,864.14 | 13,874.46 | 7,416.21 | 10,419.76 | 14,800.00 | 389,564.73 | |
| 1920 | 126,152.11 | 1,094.66 | 11,000.00 | none | 56,187.74 | 17,085.95 | 17,142.48 | 7,850.70 | 15,507.13 | 18,300.00 | 421,048.20 | |
| 1921 | 135,886.69 | 219.20 | 17,500.00 | none | 52,738.98 | 24,453.15 | 16,594.65 | 7,423.10 | 16,767.55 | 19,300.00 | 449,540.12 | |
| 1922 | 155,505.14 | 451.50 | 15,300.00 | none | 55,137.36 | 22,473.04 | 38,489.58 | 6,807.64 | 17,959.59 | 16,800.00 | 477,852.76 | |
| 1923 | 166,783.32 | 464.31 | 14,800.00 | none | 62,619.57 | 20,247.54 | 15,607.11 | 6,437.28 | 19,011.08 | 15,800.00 | 505,983.28 | |
| 1924 | 177,889.16 | 1,373.72 | 12,000.00 | none | 61,286.63 | 25,898.28 | 30,817.91 | 6,174.57 | 20,136.30 | 15,800.00 | 530,147.28 | |
| 1925 | 185,492.72 | 1,112.19 | 11,000.00 | none | 73,140.10 | 28,272.55 | 34,188.95 | 5,482.46 | 21,102.86 | 13,800.00 | 568,524.09 | |
| 1926 | 201,956.03 | 467.05 | 12,000.00 | none | 88,478.94 | 29,349.46 | 31,167.10 | 5,100.14 | 22,637.93 | 12,800.00 | 615,915.35 | |
| 1927 | 221,343.72 | 599.88 | 13,500.00 | none | 67,661.31 | 50,863.76 | 34,551.95 | 4,763.62 | 24,533.58 | 15,800.00 | 651,367.92 | |
| 1928 | 228,414.97 | 585.27 | 13,500.00 | none | 67,410.22 | 63,361.23 | 44,676.08 | 4,062.79 | 25,951.68 | 14,800.00 | 682,234.74 | |
| 1929 | 245,942.45 | 861.14 | 13,000.00 | none | 71,418.27 | 67,309.66 | 49,303.18 | 3,440.81 | 27,186.35 | 13,800.00 | 729,196.45 | |
| 1930 | 266,891.46 | 1,995.34 | 12,000.00 | none | 79,991.86 | 77,764.90 | 48,720.62 | 3,148.66 | 29,064.82 | 12,800.00 | 767,809.12 | |
| 1931 | 263,259.47 | 4,855.99 | 13,500.00 | none | 80,091.66 | 84,502.49 | 49,164.87 | 3,764.01 | 30,609.33 | 13,000.00 | 844,355.52 | |

TABLE B

| Year | K. W. H. Generated | K. W. H. Purchased | K. W. H. Sold | K. W. H. Delivered to Readg. St. Lights | K. W. H. Used at Stat'n Stock Rm & Appliance Rm | K. W. H. Unaccounted for | Net Tons of Coal Used | Average Cost of Coal Per Ton | Number of Customers | Number of Street Lights | Horse Power in Motors |
|------|--------------------|--------------------|---------------|--|---|--------------------------|--------------------------|---------------------------------|------------------------|----------------------------|--------------------------|
| 1910 | 698,597 | | 300,861 | 227,100 | 16,269 | 154,367 | 1,748.3 | 3.461 | 738 | 269 | 116 1-2 |
| 1911 | 771,011 | | 367,317 | 244,055 | 15,403 | 144,236 | 1,807.6 | 3.341 | 888 | 382 | 215 |
| 1912 | 919,282 | | 481,801 | 242,033 | 13,307 | 182,141 | 2,247.8 | 3.741 | 1,078 | 698 | 242 1-4 |
| 1913 | 1,045,592 | | 599,893 | 255,744 | 15,283 | 174,672 | 2,680 | 3.941 | 1,263 | 903 | 272 |
| 1914 | 986,476 | | 578,709 | 187,590 | 15,283 | 204,894 | 2,496.4 | 3.666 | 1,390 | 993 | 313 7-10 |
| 1915 | 980,688 | | 548,607 | 156,505 | 10,403 | 265,173 | 2,298.2 | 3.578 | 1,599 | 1,181 | 381 |
| 1916 | 1,231,677 | | 751,735 | 170,810 | 13,916 | 295,216 | 2,741.7 | 3.934 | 1,805 | 1,225 | 441 |
| 1917 | 1,291,216 | | 812,507 | 168,535 | 12,464 | 297,710 | 3,086.7 | 6.348 | 1,964 | 1,295 | 492 |
| 1918 | 1,318,546 | | 976,121 | 125,820 | 10,573 | 206,032 | 3,348.8 | 7.875 | 2,083 | 1,303 | 672 |
| 1919 | 2,056,834 | | 1,358,028 | 172,948 | 189,067 | 336,791 | 3,640 | 7.517 | 2,333 | 1,339 | 886 |
| 1920 | 2,297,237 | | 1,444,960 | 175,704 | 257,999 | 418,574 | 3,615 | 10.352 | 2,617 | 1,363 | 812.5 |
| 1921 | 2,193,092 | | 1,471,698 | 178,892 | 146,206 | 396,296 | 3,308.4 | 10.171 | 2,939 | 1,473 | 1,120.5 |
| 1922 | 2,609,076 | | 1,583,716 | 183,250 | 276,477 | 565,633 | 3,791.5 | 9.00 | 3,234 | 1,481 | 1,197.5 |
| 1923 | 3,039,677 | 3,520 | 2,046,848 | 183,935 | 342,189 | 470,225 | 4,577.7 | 8.94 | 3,666 | 1,494 | 1,367.5 |
| 1924 | 3,572,588 | | 2,463,602 | 209,738 | 392,281 | 506,967 | 3,379.5 | 6.503 | 4,058 | 1,537 | 1,281.8 |
| 1925 | 4,051,182 | 25,495 | 2,848,309 | 241,476 | 383,152 | 578,245 | 6,317.7 | 6.358 | 4,472 | 1,572 | 1,395.2 |
| 1926 | 3,600,580 | 819,787 | 3,071,944 | 249,386 | 366,352 | 732,685 | 5,740.2 | 6.488 | 4,786 | 1,602 | 1,429 |
| 1927 | 406,693 | 4,396,397 | 3,676,545 | 261,361 | 58,249 | 806,935 | 947 | 6.609 | 5,017 | 1,635 | 1,630.9 |
| 1928 | none | 5,097,768 | 3,898,620 | 259,482 | 25,625 | 914,041 | 204 | 6.354 | 5,085 | 1,655 | 1,723.5 |
| 1929 | 103,985 | 6,362,853 | 5,240,360 | 278,217 | 56,368 | 1,163,488 | 378 | 6.783 | 5,221 | 1,723 | 2,354.25 |
| 1930 | none | 7,050,708 | 5,355,542 | 298,730 | 52,117 | 979,492 | 150 | 5.75 | 5,380 | 1,758 | 1,592. |
| 1931 | none | 6,885,880 | 5,640,426 | 324,162 | 51,932 | 857,870 | 145.8 | 5.04 | 5,487 | 1,762 | 2,527 |

TABLE C

Production Costs Per K. W. H. Based on Total K. W. H. Delivered
at Switchboard

| Year | K. W. H. Purchased | Fuel | Labor | Repairs and other Station Expense | Total Costs |
|------|-----------------------|--------|--------|--------------------------------------|----------------|
| 1910 | | .0086 | .0075 | .0026 | .0187 |
| 1911 | | .0078 | .0069 | .0021 | .0168 |
| 1912 | | .0091 | .0071 | .0027 | .0189 |
| 1913 | | .0101 | .0070 | .0020 | .0191 |
| 1914 | | .0092 | .0082 | .0017 | .0191 |
| 1915 | | .0085 | .0087 | .0013 | .0185 |
| 1916 | | .0087 | .0071 | .0022 | .0180 |
| 1917 | | .0144 | .0075 | .0015 | .0234 |
| 1918 | | .0200 | .0085 | .0025 | .0310 |
| 1919 | | .0133 | .0066 | .0019 | .0218 |
| 1920 | | .0162 | .0071 | .0009 | .0242 |
| 1921 | | .0153 | .0077 | .0009 | .0240 |
| 1922 | | .0131 | .0066 | .0014 | .0211 |
| 1923 | | .0134 | .0057 | .0014 | .0205 |
| 1924 | | .00979 | .0055 | .00166 | .01695 |
| 1925 | | .00991 | .0054 | .00272 | .01803 |
| 1926 | .0285 | .01034 | .0056 | .00212 | .0200 |
| 1927 | .01116 | .01205 | .00246 | .00390 | .01743 |
| 1928 | .01227 | None | .00170 | .00225 | .01622 |
| 1929 | .01051 | .01444 | .00141 | .00150 | .01349 |
| 1930 | .01106 | None | .00124 | .00127 | .0136 |
| 1931 | .01134 | None | .00128 | .00027 | .0129 |

TABLE D

Average Cost Per K. W. H. As Defined by Chapter 164, General Laws

| | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Operating Costs: | .0397 | .0483 | .0362 | .0586 | .0467 | .0577 | .0538 | .0509 | .0558 | .0640 |
| Fixed Costs: | .0198 | .0176 | .0254 | .0299 | .0261 | .0249 | .0274 | .0213 | .0259 | .0330 |
| Total Costs: | .0595 | .0659 | .0616 | .0885 | .0728 | .0826 | .0812 | .0722 | .0817 | .0970 |
| | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 | 1931 |
| Operating Costs: | .0561 | .0494 | .0377 | .0442 | .0448 | .0395 | .0414 | .0359 | .0344 | .0368 |
| Fixed Costs: | .0278 | .0185 | .0138 | .0131 | .0129 | .0115 | .0116 | .0085 | .0075 | .0079 |
| Total Costs: | .0839 | .0679 | .0515 | .0573 | .0577 | .0510 | .0530 | .0444 | .0419 | .0447 |

ACCOUNTS PAYABLE

December 31, 1931.

| | Total | Dec. | Nov. Oct. & Prev. |
|------------------------------|---------|---------|-------------------|
| Addressograph Company | \$ 4.13 | \$ 4.13 | |
| The American Pulley Co. | 1.72 | 1.72 | |
| The Art Metal Company | 51.24 | | \$ 51.24 |

| | | | | |
|---------------------------------|--------------|----------|----------|--------------|
| G. H. Atkinson Company | .10 | .10 | | |
| Wendell Bancroft & Co. | 7.21 | 7.21 | | |
| W. C. Barrett | 3.85 | 3.85 | | |
| Barry Motor Sales | 10.45 | 10.45 | | |
| Van I. Bennett | 39.68 | 7.33 | 32.35 | |
| Boston & Maine R. R. | 228.95 | 228.95 | | |
| Bourdon Studio | 3.50 | 3.50 | | |
| J. Brinton Bailey | 8.10 | 8.10 | | |
| Burroughs Adding Machine Co. | 8.02 | | 8.02 | |
| George H. Buckminster Co. .. | 505.30 | 90.21 | 219.65 | 195.44 |
| Century Electric Company | 9.65 | 9.65 | | |
| Earle H. Chapin | 5.00 | 5.00 | | |
| M. F. Charles | 22.00 | 22.00 | | |
| Chase, Parker & Co., Inc. | 43.80 | | 43.80 | |
| Clapp & Leach, Inc. | 431.29 | 431.29 | | |
| Clifford Mfg. Co. | 6.09 | | 6.09 | |
| Condit Electrical Mfg. Co. | 5.62 | 1.80 | 3.82 | |
| Controller Service & Sales Co. | .74 | .74 | | |
| Cummings Express Co. | 16.90 | 16.90 | | |
| Davis Emerg'cy Equip. Co., Inc. | 11.77 | | 11.77 | |
| The Donaldson. Litho Co. .. | 23.40 | | 23.40 | |
| John Donnelly & Sons | 15.60 | | 15.60 | |
| Dyer-Clark Co. | 255.47 | 192.73 | 62.74 | |
| Frank S. Eaton | .76 | .76 | | |
| Edison Electric Ill. Co. | 16,678.04 | 9,054.65 | 7,623.39 | |
| Edison General Elec. Appl. Co. | 4.32 | 4.32 | | |
| The Electric Heater Corp. | 15.82 | 15.82 | | |
| Electric Time Company | 143.66 | 55.72 | 87.94 | |
| Electromaster, Inc. | 59.50 | 6.23 | 8.27 | 74.00 |
| George W. Ellis Co., Inc. | 197.01 | 197.01 | | |
| Eureka Vacuum Cleaner Co. .. | 263.30 | 4.79 | .51 | 258.00 |
| T. C. Fife, Inc. | 2.90 | 2.90 | | |
| Flexume Sign Maint. Co. | 15.04 | 15.04 | | |
| The Foote-Burt Co. | 2.44 | | | 2.44 |
| Francis Bros. | 19.54 | 19.54 | | |
| Frankfort Lumber Company .. | 39.90 | | | 39.90 |
| Frigidaire Sales Corp. of N. E. | .50 | .50 | | |
| General Equipment Corp. | 4.44 | 4.44 | | |
| Globe American Corp. | 18.75 | | 18.75 | |
| The Good Housekeeping Shop | 1.98 | 1.98 | | |
| Goode Sign Company | 5.60 | | 5.60 | |
| Goulds Pumps, N. E. | .88 | | .88 | |
| Gulf Refining Company | 85.80 | 46.80 | 39.00 | |
| General Electric Company | 131.04 | 70.42 | 60.62 | |
| Graybar Electric Co., Inc. .. | 460.10 | 406.83 | 53.27 | |

| | | | | |
|---|-----------|-----------|-----------|-----------|
| F. S. Hardy & Co. | 464.11 | 464.11 | | |
| Hodson Bros. | 1.40 | 1.40 | | |
| Horni Signal Mfg. Corp. | 28.60 | 10.31 | 18.29 | |
| Jones Bros. | 124.20 | 124.20 | | |
| Kelvinator Sales Corp. | 1,031.93 | 478.88 | 305.90 | 247.15 |
| General Electric Supply Corp. | 798.55 | 402.52 | 396.03 | |
| Kenney Service Station | \$ 139.31 | \$ 139.31 | | |
| Harry H. Kimball | 18.00 | 18.00 | | |
| Landers, Frary & Clark | 868.43 | 146.39 | \$ 722.04 | |
| Lightolier Company | 13.07 | 6.85 | 6.22 | |
| Alex Lindsay | 4.50 | 4.50 | | |
| The Lowell Electric Light Corp. | 16.26 | 16.26 | | |
| Malone Bros. | 7.88 | 3.00 | 4.88 | |
| George W. Marshall | 2.95 | 2.95 | | |
| A. E. Martell Company | 18.82 | 18.82 | | |
| The Martin-Rosebury Corp. .. | 5.00 | 5.00 | | |
| Mathias-Hart Co | 66.41 | 48.41 | 18.00 | |
| H. J. Montgomery | 44.38 | 44.38 | | |
| J. N. Muldoon Company | 40.00 | | 40.00 | |
| H. B. McArdle | 33.95 | 16.70 | 17.25 | |
| National Lamp Works | 760.91 | 244.83 | 291.81 | \$ 224.27 |
| New Eng. Tel. & Tel. Co. | 89.77 | 89.77 | | |
| New Eng. Tel. & Tel. Co. Const. | 53.51 | 53.51 | | |
| H. L. Abbott, Clerk, No. Read- ing | 2.00 | 2.00 | | |
| One Minute Mfg. Co. | 1.33 | 1.33 | | |
| M. R. Parsons | 337.50 | 337.50 | | |
| Pettingell-Andrews Co. | 105.45 | 37.45 | 68.00 | |
| The Pioneer Mfg. Co. | 7.50 | | 7.50 | |
| Prentiss & Parker | 717.30 | 717.30 | | |
| Railway Express Agency | 12.94 | 12.94 | | |
| Town of Reading Treasury Dept. | 93.45 | 93.45 | | |
| Town of Reading Moth Dept. | 516.00 | 516.00 | | |
| Town of Reading Sewer Dept. | 8.40 | 8.40 | | |
| Reading Chronicle | 85.40 | 85.40 | | |
| Reading Greenhouses | 1.50 | 1.50 | | |
| Reading Motor Company | 146.50 | 146.50 | | |
| Reading Rubber Mfg. Co. | 2.90 | 2.90 | | |
| Reedy Specialty Company | 1.10 | 1.10 | | |
| Reo Service Company | 80.51 | 73.86 | 6.65 | |
| Robeson-Rochester Corp. | 2.82 | | 2.82 | |
| Sager Electric Supply Co. | 38.27 | 38.27 | | |
| J. F. Sanborn | 14.00 | 14.00 | | |

| | | | | |
|--------------------------------|----------|----------|---------|------------|
| Simplex Wire & Cable Co. .. | 641.75 | 717.72 | 75.97 | |
| Ray H. Smith | 17.00 | | 17.00 | |
| Spaulding Moss Company | 1.37 | | 1.37 | |
| State Chemical Company | 4.42 | | 4.42 | |
| Stone & McDermott | 6.69 | 6.69 | | |
| James Sugden Company | 3,299.39 | 3,299.39 | | |
| S. R. Stembridge Company .. | 11.29 | 10.39 | .90 | |
| The Sweeper-Vac Co. | 289.35 | 190.80 | 98.55 | |
| The Timken Roller Bearing .. | 9.09 | 9.09 | | |
| Lyman H. Twiss | 65.26 | 65.26 | | |
| United Motors Service | 7.50 | 7.50 | | |
| Toye Electric Supply Co. | 16.72 | 16.72 | | |
| H. F. Walker | 60.00 | 60.00 | | |
| Walker & Pratt Mfg. Co. | 13.36 | 2.32 | 11.04 | |
| Wagner Electric Corp. | 9.09 | 9.09 | | |
| Webster-Thomas Co. | 100.57 | | 100.57 | |
| Willis' Pharmacy | 1.93 | 1.93 | | |
| The Wilmington News | 48.65 | 48.65 | | |
| Ralph R. Currier, Town Clerk | 2.80 | 2.80 | | |
| Woburn Machine Company .. | 8.00 | 8.00 | | |
| George H. Wahn Company | 156.33 | \$120.78 | \$35.55 | |
| Wetmore-Savage Elec. Sup. Co. | 2,980.31 | 795.63 | 768.75 | \$1,415.93 |
| Yawman & Erbe Mfg. Co. | 5.85 | | 5.85 | |
| Paul Dayton | 29.35 | 29.35 | | |
| Eastern Mass. St. Ry. Co. | 39.65 | 39.65 | | |
| Amer. Elec. Serv. & Maint. Co. | 121.85 | | | 121.85 |
| Security Fence Company | 107.00 | | | 107.00 |
| Seeger Refrigerator Company .. | 120.00 | | | 120.00 |
| Westinghouse Elec. & Mfg. Co. | 736.96 | | 736.96 | |
| Davis & Abbott | 5.65 | .75 | 4.90 | |
| E. B. Currell & Son | 39.73 | 6.77 | 32.96 | |
| Hygrade Sylvania Co. | 113.24 | 113.24 | | |
| Martin B. Hartshorn | 1,803.88 | 1,803.88 | | |
| Clark & Mills | 37.02 | 37.02 | | |
| Frank Corraboom | 1.50 | 1.50 | | |
| George W. Davis Co. | 53.00 | 53.00 | | |
| D. M. Laffin | 17.60 | 17.60 | | |
| M. W. Vye Company | 1.41 | 1.41 | | |
| J. R. Wilkins | 30.00 | 30.00 | | |
| J. M. Maxwell & Son, Inc. .. | 17.85 | 17.85 | | |

\$36,222.94 \$21,472.75 \$12,176.89 \$ 2,573.30

LIST OF EMPLOYEES BONDED

| Item | Name | Position | Amount |
|------|---------------------|------------------------|------------|
| 3 | George M. Roundy | Collection Agent L. C. | \$1,000.00 |
| 4 | Clarence L. Thomas | Supt. of Distrib. Rea. | 1,000.00 |
| 6 | Arthur G. Sias | Manager " | 5,000.00 |
| 8 | Edward O. Herrick | Serv. Dept. Mgr. " | 1,000.00 |
| 10 | John R. Anderson | Service " | 1,000.00 |
| 16 | Paul E. Lane | Rec. Room Clerk " | 1,000.00 |
| 18 | Charles E. Tasney | Sales & Collections " | 2,000.00 |
| 21 | Hazel C. Ainsworth | Cashier " | 5,000.00 |
| 22 | Christine Cheney | Assistant Cashier " | 5,000.00 |
| 24 | John W. Babine | St. Lt. Patrol " | 1,000.00 |
| 25 | Kathleen H. Merritt | Assistant Cashier " | 1,000.00 |
| 26 | Edward E. Harnden | Salesman " | 1,000.00 |
| 29 | Ralph G. Babcock | Office Manager " | 5,000.00 |
| 30 | Benjamin J. Downs | Meter Reader " | 1,000.00 |
| 32 | Doris S. Parker | Sales Clerk " | 1,000.00 |
| 33 | Joseph B. McMahan | Collection Agent Wilm. | 3,000.00 |
| 34 | Harold R. Metcalf | Meter Reader Rea. | 1,000.00 |
| 36 | Merrill P. Reed | Service " | 1,000.00 |
| 39 | Leslie J. Bertwell | Service " | 1,000.00 |
| 40 | Iris L. Birnie | Stenographer " | 1,000.00 |
| 41 | Hector Gianascol | Meter Tester " | 1,000.00 |
| 42 | Lyman E. Abbott | Collection Ag. N. R. | 1,000.00 |
| 43 | Roland C. Deming | Collection Ag. Wilm. | 3,000.00 |
| 44 | Harry J. Barclay | Bookkeeper Rea. | 1,000.00 |

TOWN OF READING—MUNICIPAL LIGHT DEPT. REPORT OF AUDIT YEAR ENDED DECEMBER 31, 1931

January 23, 1932.

To the Municipal Light Board,
Town of Reading,
Massachusetts.
Gentlemen:

In accordance with your instructions we have examined the books and records of the Electric Light Department for the year ended December 31, 1931. As a result of our examination and information furnished us, we submit the following Exhibits and Schedules:

Exhibits

"A"—Comparative Balance Sheet—December 31, 1931—December 31, 1930.

"B"—Comparative Statement of Operations for the 12 months ended December 31, 1931—December 31, 1930.

"C"—Comparative Analysis of Profit and Loss for the 12 months ended December 31, 1931—December 31, 1930.

Schedules

"1"—Comparative Detailed Statement of Income for the 12 months ended December 31, 1931—December 31, 1930.

"2"—Comparative Detailed Statement of Operating Expenses for the 12 months ended December 31, 1931—December 31, 1930.

"3"—Detail of Bonds and Notes Authorized, Issued and Outstanding December 31, 1931.

"4"—Comparative Gross Revenue by Towns for the 12 months ended December 31, 1931.

"5"—Detail of Kilowatt Hours Bought, Sold, Used and Unaccounted for—12 months ended December 31, 1931.

In explanation of certain accounts and the extent of our examination, we wish to offer the following comments:

Plant Investment—\$490,939.78.

The net additions to plant investment accounts amounting to \$76,546.40 for the year ended December 31, 1931 are classified as follows:

| | |
|---|---------------------|
| Electric Plant Steam | \$ 1,291.45 |
| Poles, Fixtures and Overhead Conductors | 22,297.80 |
| Underground Conduits and Conductors | 37,271.34 |
| Consumers' Meters and Installations | 1,906.75 |
| Line Transformers and Installations | 5,183.44 |
| Street Lighting Equipment—Regular | 119.04 |
| Street Lighting Equipment—Special | 8,476.58 |
| Total Additions | <u>\$ 76,546.40</u> |

As a result of a series of tests made by us, we are satisfied that the charges to plant investment accounts represent proper capital additions.

We believe a more permanent detailed record of capital expenditures should be kept to facilitate and more accurately account for retirement book value of property when replacements are made.

Depreciation charges for 1931 amounted to \$30,609.33, the basis being 4 per cent of the cost of Plant Investment as at the beginning of the year. As it is the practice of this department to apply depreciation directly to the asset account, the amounts shown in Exhibit "A" represent depreciated values.

General Equipment—\$16,433.88.

This represents the inventory value of various equipment as of December 31, 1931. Equipment accounts as shown in Exhibit "A" represent the adjusted book values which conform with the inventories furnished us.

Unfinished Construction—\$135.00

The cost of plans for the proposed 4,000 volt-switching equipment is represented by this account.

Operating, Depreciation and Special Construction Funds—\$4,249.22.

These funds were on deposit with the Town Treasurer as of December 31, 1931, and the balances were certified as correct by the Town Accountant. The balances of the various funds are shown in detail in Exhibit "A".

Expenditures as shown by "Bills Approval Sheets" were examined and the totals checked to the Cash Book.

Petty Cash Fund—\$250.00.

The various funds constituting this amount are used for the purpose of making change and payment of petty office expenses. All cash in the hands of cashiers was counted; the result of which was as follows:

| | | |
|--------------------------------------|----|--------|
| Cash and Checks on Hand | \$ | 524.87 |
| Receipts properly signed | | 14.04 |
| Collectors' Fund (not counted) | | 10.00 |
| | | <hr/> |
| Total | \$ | 548.91 |
| Receipted Bill Stubs | | 299.25 |
| | | <hr/> |
| Balance | \$ | 249.66 |
| Shortage | | .34 |
| | | <hr/> |
| Fund | \$ | 250.00 |

Consumers' Deposit Fund—\$6,978.75.

This amount represents funds on deposit in the Mechanic Savings Bank, which were received from various consumers to guarantee payment of bills due this Department. Verification of the above balance was made by examination of pass book which shows a balance sufficient to care for Consumers' Deposit Liability.

Accounts Receivable—Consumers' \$21,517.54

The balances of individual consumers' ledger cards were compared with schedules furnished us by the Department and the total due from consumers as shown by these schedules was found to conform with the above amount.

During 1931, uncollectible accounts in the amount of \$956.77 were charged off and there remained on the books \$2,635.80 or 12.2 per cent of the total due from this class of receivables which were ninety days or more in arrears.

No direct verification was made with consumers.

Accounts Receivable—Miscellaneous \$10,139.58.

Balances due from customers as per schedule furnished us on account of miscellaneous receivables were compared with the individual customer's accounts; the total of this schedule was found to agree with the above balance.

It appeared that there were accounts amounting to \$4,287.41 ninety days or more in arrears in addition to \$1,133.84 which were charged off as uncollectible.

We renew our recommendation of last year in regard to the recording of installment sales on appropriate ledger accounts, with full information necessary to reflect the terms of the sale in order to have readily available the exact status of each account.

Materials and Supplies—\$58,890.17

Inventories of the various supply accounts, taken by the Department employees were presented to us already priced and extended, and the books of account were adjusted to conform with these inventories.

Insurance Premiums—Unexpired—\$1,222.42

This represents the unexpired portion of insurance premiums as of December 31, 1931 computed from policies furnished us or in the possession of the Town Treasurer.

Appropriation for Construction—\$30,678.26

No appropriation from general tax levy for construction purposes was made during the year.

Bonds Payable—\$96,500.00

There were bonds amounting to \$13,000.00 retired during the year.

Serial bonds in the amount of \$40,000.00 were issued during the year, which are dated April 15, 1931, bearing interest at 3 1-2 per cent per annum, and maturing within twenty years.

This issue provides that a par value of \$2,000.00 shall be retired each year commencing April 15, 1932.

Verification of bonds outstanding as of December 31, 1931 was made with the Town Treasurer's records. Detail of the various issues is shown in schedule "3".

Accounts Payable—\$36,222.94

A schedule of unpaid creditors' accounts, as of December 31, 1931 was furnished us, the total of which agreed with the General Ledger Control.

These invoices are aged as follows:

| | |
|-------------------------|--------------|
| December Invoices | \$ 21,472.75 |
| November Invoices | 12,176.89 |
| October Invoices | 2,573.30 |

| | |
|-------------|--------------|
| Total | \$ 36,222.94 |
|-------------|--------------|

Consumers' Deposits—\$6,978.75.

Individual deposit cards were examined and the total of these balances agreed with the control.

Interest on these deposits appeared to have been credited to consumers' accounts, at the rate of 4 per cent per annum, for such deposits as had been in the custody of the Department for six months or more.

Interest Accrued on Bonds—\$801.59

This represents the interest accrued but not due on the balance of the various issues, as shown in schedule "3".

Other Accrued Items—\$250.00

This represents a loan from the Town Treasurer which is used by the Department for petty cash purposes. At the beginning of the year there was due the Town Treasurer \$14,225.81, of which \$13,975.81 was paid off during 1931.

Bond Premiums—\$354.54

Premiums received from bonds issued are as follows:

| | |
|---------------------------------|--------|
| 1930 issue of \$15,000 | 18.54 |
| 1931 issue of \$40,000.00 | 336.00 |

| | |
|-------------|-----------|
| Total | \$ 354.54 |
|-------------|-----------|

The money from these premiums is in operating cash and should be used at the time of the first retirement of bonds from the specific issue.

Loans Repayment—\$317,400.00

The increase in this account during the year represents bonds retired amounting to \$13,000.00 as shown in Schedule "3".

Profit and Loss—\$121,570.26

An analysis of this account is shown in Exhibit "C". There appears to be a net profit of \$23,771.03 which, after deducting the bonds retired, reflects a net addition to this account of \$10,771.03.

Operating Revenue—\$277,008.61

This class of revenue shows an increase of \$9,674.05 over 1930.

Operating Expenses—\$241,459.49

These expenses show an increase of \$8,459.08 over 1930.

General Comments

The Department had discounted leases outstanding at the Malden Morris Plan Co. for \$4,048.67, representing a contingent liability as of December 31, 1931.

The bond coverage of all employees seemed to be adequate.

We renew our recommendation of last year in regard to stock control.

It is also apparent that the cost of the various specific construction projects is not available in such form, as would be the result obtainable from a work order system.

Respectfully submitted,

CHARLES E. STANWOOD AND SONS, INC.

**TOWN OF READING—MUNICIPAL LIGHT DEPARTMENT
COMPARATIVE BALANCE SHEET
December 31, 1931—December 31, 1930
ASSET ACCOUNTS**

| | 1931 | 1930 | Increase Deceased* |
|--|---------------------|---------------------|-----------------------|
| Plant Investments: | | | |
| 111 Land | \$ 2,575.80 | \$ 2,575.80 | \$ 0.00 |
| 113 Structures | 35,190.51 | 36,075.56 | 885.05* |
| 114 Boiler Plant Equipment... | 22,312.91 | 25,100.78 | 2,787.87* |
| 115 Prime Movers & Auxiliaries | 9,324.27 | 10,484.81 | 1,160.54* |
| 116 Turbo-Generator Units | 14,345.32 | 16,220.15 | 1,874.83* |
| 117 Electric Plant—Steam | 31,583.82 | 32,478.63 | 894.86* |
| 125 Poles, Fixtures and Overhead Conductors | 230,757.11 | 223,358.20 | 7,398.91 |
| 126 Underground Conduits | 21,261.27 | 0.00 | 21,261.27 |
| 127 Underground Conductors .. | 16,010.07 | 0.00 | 16,010.07 |
| 128 Consumers' Meters | 38,343.30 | 39,336.50 | 993.20* |
| 129 Consumers' Meter Install's | 6,527.53 | 6,520.11 | 7.42 |
| 130 Line Transformers | 42,584.80 | 40,223.75 | 2,361.05 |
| 131 Transformer Installations .. | 4,257.14 | 4,283.96 | 26.82* |
| 132 Street Lighting Equipment | 15,703.40 | 8,164.72 | 7,538.68 |
| 133 Consumers' Premises Equip. | 162.53 | 179.69 | 17.16* |
| TOTAL PLANT INVESTMENT | \$490,939.78 | \$445,002.71 | \$45,937.07 |

General Equipment:

| | | | | |
|-------------------------|----------------------------|--------------|--------------|--------------|
| 150 | Office Equipment | \$ 8,491.56 | \$ 8,426.31 | \$ 65.25 |
| 152 | Stores Equipment | 659.58 | 596.16 | 63.42 |
| 153 | Transportation Equipment | 4,029.00 | 5,961.00 | 1,932.00* |
| 154 | Laboratory Equipment | 1,395.56 | 1,384.42 | 11.14 |
| 155 | Miscellaneous Equipment .. | 1,858.18 | 2,035.38 | 177.20* |
| | | | | |
| TOTAL GENERAL EQUIPMENT | | \$16,433.88 | \$18,403.27 | \$ 1,969.39* |
| 201 | Unfinished Construction .. | \$ 135.00 | \$ 0.00 | \$ 135.00 |
| | | | | |
| TOTAL INVESTMENTS | | \$507,508.65 | \$463,405.98 | \$44,102.68 |

Current Assets:

| | | | | |
|------------------------|-----------------------------|--------------|--------------|--------------|
| 204-1 | Operating Fund | \$ 413.45 | \$ 0.00 | \$ 413.45 |
| 204-3 | Petty Cash Fund | 250.00 | 250.00 | 0.00 |
| 204-4 | Construction Fund Spec. '30 | 2,051.37 | 5,109.12 | 3,057.75* |
| 205-1 | Depreciation Fund | 1,784.40 | 1,451.40 | 333.00 |
| 205-2 | Consumers' Deposit Fund | 6,978.75 | 5,904.75 | 1,074.00 |
| 207-1 | Accounts Rec.—Consumers' | 21,517.54 | 20,355.79 | 1,161.75 |
| 207-2 | Accts. Receivable Miscel. | 10,139.58 | 13,291.15 | 3,151.57* |
| 209-1 | Materials and Supplies— | | | |
| | General | 31,772.71 | 29,464.28 | 2,308.43 |
| 2 | Station Tools & Appliances | 410.09 | 391.91 | 18.18 |
| 3 | Distrib. Tools & Appliances | 5,053.89 | 3,236.82 | 1,817.07 |
| 4 | Printing & Office Supplies | 768.00 | 837.70 | 69.70* |
| 5 | Lamps and Appliances .. | 19,834.93 | 23,296.85 | 3,461.92* |
| 6 | Coal Supplies | 613.67 | 641.67 | 28.00* |
| 9 | Station Supplies | 436.88 | 453.07 | 16.19* |
| | | | | |
| TOTAL CURRENT ASSETS — | | \$102,025.26 | \$104,684.51 | \$ 2,659.25* |

Prepaid Items:

| | | | | |
|--------------------|-------------------------|--------------|--------------|-------------|
| 214 | Prepaid Insurance | \$ 1,222.42 | \$ 882.94 | \$ 339.48 |
| | | | | |
| GRAND TOTALS | | \$610,756.34 | \$568,973.43 | \$41,782.91 |

EXHIBIT "A"
LIABILITY ACCOUNTS

| | 1931 | 1930 | Increase Decrease* |
|--|--------------|--------------|-----------------------|
| Appropriations: | | | |
| 301 Appropriations for Construct. | \$ 30,678.26 | \$ 30,678.26 | \$ 0.00 |
| Bonds and Notes Payable: | | | |
| 305 Bonds Payable | \$ 96,500.00 | \$ 69,500.00 | \$27,000.00 |
| 306 Notes Payable | 0.00 | 0.00 | 0.00 |
| <hr/> | | | |
| TOTAL BONDS AND NOTES | \$ 96,500.00 | \$ 69,500.00 | \$27,000.00 |
| Current Liabilities: | | | |
| 308 Accounts Payable | \$ 36,222.94 | \$ 32,781.02 | \$ 3,441.92 |
| 309 Consumers' Deposits | 6,978.75 | 5,904.75 | 1,074.00 |
| <hr/> | | | |
| TOTAL CUR. LIABILITIES .. | \$ 43,201.69 | \$ 38,685.77 | \$ 4,515.92 |
| Accrued Items: | | | |
| 314 Interest Accrued on Bonds and Notes | \$ 801.59 | \$ 665.82 | \$ 135.77 |
| 315 Other Accrued Items—Loan Due—Town Treasurer | 250.00 | 14,225.81 | 13,975.81* |
| <hr/> | | | |
| TOTAL ACCRUED ITEMS .. | \$ 1,051.59 | \$ 14,891.63 | \$13,840.04* |
| Unadjusted Credits: | | | |
| 316 Premium on Bonds | \$ 354.54 | \$ 18.54 | \$ 336.00 |
| Appropriated Surplus: | | | |
| 322 Loans Repayment | \$317,400.00 | \$304,400.00 | \$13,000.00 |
| Profit and Loss: | | | |
| 400 Profit and Loss Balance (See Exhibit "C") | \$121,570.26 | \$110,799.23 | \$10,771.03 |
| NOTE: | | | |
| As at December 31, 1931 there was a contingent lia- bility in the form of Leases Discounted amounting to \$4,048.67. | | | |
| <hr/> | | | |
| GRAND TOTALS | \$610,756.34 | \$568,973.43 | \$ 41,782.91 |

EXHIBIT "B"

TOWN OF READING—MUNICIPAL LIGHT DEPARTMENT COMPARATIVE STATEMENT OF OPERATIONS

FOR THE TWELVE MONTHS ENDED DECEMBER 31, 1931—DECEMBER 31, 1930

| Revenue from Sales—Electric Energy: | | 1931 | 1930 | Increase Decrease* | 1931 | 1930 | Ratios |
|---------------------------------------|---|--------------|--------------|-----------------------|-------|-------|--------|
| 501 | Metered Sales—Residence Lighting | \$158,829.68 | \$143,571.90 | \$ 15,257.78 | 57.3% | 53.7% | |
| 501 | Metered Sales—Commercial Lighting | 36,952.47 | 34,599.15 | 2,353.32 | 13.4 | 12.9 | |
| 501 | Metered Sales—Commercial Heating | 7,958.15 | 6,942.82 | 1,015.33 | 2.8 | 2.6 | |
| 501 | Metered Sales—Wholesale Power | 10,348.38 | 18,538.47 | 8,190.09* | 3.8 | 6.9 | |
| 501 | Metered Sales—Retail Power | 32,603.01 | 33,804.59 | 1,201.58* | 11.8 | 12.7 | |
| 505 | Sales to Other Companies | 502.98 | 507.24 | 4.26* | .2 | .2 | |
| 505 | Street Lighting | 27,194.75 | 25,957.92 | 1,236.83 | 9.8 | 9.7 | |
| 505 | Municipal Buildings—Light and Power | 2,370.05 | 2,969.37 | 599.32* | .8 | 1.2 | |
| TOTAL REVENUE FROM SALES—ELEC. ENERGY | | \$276,759.47 | \$266,891.46 | \$ 9,868.01 | 99.9 | 99.9 | |
| 508 | Rent from Property used in Operations | 249.14 | 443.10 | 193.96* | .1 | .1 | |
| TOTAL OPERATING REVENUE | | \$277,008.61 | \$267,334.56 | \$ 9,674.05 | 100.0 | 100.0 | |
| Electric Operating Expenses: | | | | | | | |
| I | Production | \$ 80,091.66 | \$ 79,991.86 | \$ 99.80 | 28.9% | 29.9% | |
| II | Transmission and Distribution | 73,548.66 | 67,613.02 | 5,935.64 | 26.6 | 25.3 | |
| III | Utilization | 10,953.83 | 10,151.88 | 801.95 | 3.9 | 3.8 | |
| IV | Commercial | 14,613.15 | 14,200.66 | 412.49 | 5.2 | 5.3 | |
| V | New Business | 2,590.69 | 3,691.30 | 1,100.61* | .9 | 1.4 | |

| | | | | |
|--|--------------|--------------|--------------|-------|
| VI General and Miscellaneous | 59,661.50 | 57,351.69 | 2,309.81 | 21.5 |
| TOTAL OPERATING EXPENSES | \$241,459.49 | \$233,000.41 | \$ 8,459.08 | 87.2 |
| NET OPERATING REVENUE | \$ 35,549.12 | \$ 34,334.15 | \$ 1,214.97 | 12.8% |
| Deductions: | | | | |
| 550 Uncollectible Operating Revenue | \$ 2,090.61 | \$ 1,731.56 | \$ 359.05 | |
| 551 Taxes Assignable to Electric Operations | 818.25 | 810.23 | 8.02 | |
| TOTAL DEDUCTIONS | \$ 2,908.86 | \$ 2,541.79 | \$ 367.07 | |
| NET OPERATING INCOME | \$ 32,640.26 | \$ 31,792.36 | \$ 847.90 | |
| Non-Operating Income: | | | | |
| 563 Interest Income | \$ 103.96 | \$ 104.89 | \$.93* | |
| 566 Miscellaneous Non-Operating Income | 737.98 | 0.00 | 737.98 | |
| TOTAL NON-OPERATING INCOME | \$ 841.94 | \$ 104.89 | \$ 737.05 | |
| TOTAL INCOME | \$ 33,482.20 | \$ 31,897.25 | \$ 1,584.95 | |
| Deductions from Total Income: | | | | |
| 560 Merchandise and Jobbing Loss | \$ 5,947.07 | \$ 2,543.33 | \$ 3,403.74 | |
| 576 Interest on Bonds and Notes | 3,764.10 | 3,148.66 | 615.44 | |
| TOTAL DEDUCTIONS FROM INCOME | \$ 9,711.17 | \$ 5,691.99 | \$ 4,019.18 | |
| NET INC.—TRANSFERRED TO PROFIT AND LOSS EXHIBIT "C" | \$ 23,771.03 | \$ 26,205.26 | \$ 2,434.23* | |

EXHIBIT "C"
TOWN OF READING—MUNICIPAL LIGHT DEPARTMENT
COMPARATIVE ANALYSIS OF PROFIT AND LOSS
For the Twelve Months Ended December 31, 1931—December 31, 1930

| | 1931 | 1930 | Increase Decrease* |
|---|--------------|--------------|-----------------------|
| Balance—Beginning of Year | \$110,799.23 | \$ 97,393.97 | \$ 13,405.26 |
| Additions: | | | |
| Net Income—Transferred from Statement of Operations—Ex- hibit "B" | 23,771.03 | 26,205.26 | 2,434.23* |
| | <hr/> | <hr/> | <hr/> |
| | \$134,570.26 | \$123,599.23 | \$ 10,971.03 |
| Deductions: | | | |
| Bonds Retired | \$ 13,000.00 | \$ 11,500.00 | \$ 1,500.00 |
| Notes Retired | 0.00 | 1,300.00 | 1,300.00* |
| | <hr/> | <hr/> | <hr/> |
| TOTAL DEDUCTIONS | \$ 13,000.00 | \$ 12,800.00 | \$ 200.00 |
| | <hr/> | <hr/> | <hr/> |
| Balance—End of Year | \$121,570.26 | \$110,799.23 | \$ 10,771.03 |
| (See Exhibit "A") | | | |
| Net Increase in Profit and Loss for Year | \$ 10,771.03 | \$ 13,405.26 | \$ 2,634.23* |

SCHEDULE "1"
TOWN OF READING—MUNICIPAL LIGHT DEPARTMENT
COMPARATIVE DETAILED STATEMENT OF INCOME
For the Twelve Months Ended December 31, 1931—December 31, 1930.

| | 1931 | 1930 | Increase Decreased* |
|--|---------------------|---------------------|------------------------|
| Metered Sales—Residence Lighting: | | | |
| Reading | \$ 90,281.66 | \$ 83,174.15 | \$ 7,107.51 |
| Lynnfield Center | 12,623.41 | 10,787.54 | 1,835.87 |
| North Reading | 19,828.90 | 16,948.79 | 2,880.11 |
| Wilmington | 36,095.71 | 32,661.42 | 3,434.29 |
| | <hr/> | <hr/> | <hr/> |
| Total Res. Lighting Income | \$158,829.68 | \$143,571.90 | \$ 15,257.78 |

Metered Sales—Commercial Lighting

| | | | |
|------------------------|--------------|--------------|-------------|
| Reading | \$ 25,005.50 | \$ 23,178.51 | \$ 1,826.99 |
| Lynnfield Center | 1,372.32 | 1,451.46 | 79.14* |
| North Reading | 3,736.70 | 3,693.84 | 42.86 |
| Wilmington | 6,837.95 | 6,275.34 | 562.61 |

| | | | |
|-----------------------------------|--------------------|---------------------|--------------------|
| Total Com. Lighting Income | \$36,952.47 | \$ 34,599.15 | \$ 2,353.32 |
|-----------------------------------|--------------------|---------------------|--------------------|

Metered Sales—Commercial Heating:

| | | | |
|------------------------|-------------|-------------|-----------|
| Reading | \$ 5,063.29 | \$ 4,230.84 | \$ 832.45 |
| Lynnfield Center | 498.82 | 397.59 | 101.23 |
| North Reading | 935.56 | 1,144.60 | 209.04* |
| Wilmington | 1,460.48 | 1,169.79 | 290.69 |

| | | | |
|----------------------------------|--------------------|--------------------|--------------------|
| Total Com. Heating Income | \$ 7,958.15 | \$ 6,942.82 | \$ 1,015.33 |
|----------------------------------|--------------------|--------------------|--------------------|

Metered Sales—Wholesale Power:

| | | | |
|------------------------|-------------|-------------|-----------|
| Reading | \$ 8,739.71 | \$ 7,744.23 | \$ 995.48 |
| Lynnfield Center | 0.00 | 0.00 | 0.00 |
| North Reading | 1,573.27 | 785.55 | 787.72 |
| Wilmington | 35.40 | 10,008.69 | 9,973.29* |

| | | | |
|-----------------------------------|---------------------|---------------------|---------------------|
| Total Wholesale Power Inc. | \$ 10,348.38 | \$ 18,538.47 | \$ 8,190.09* |
|-----------------------------------|---------------------|---------------------|---------------------|

Metered Sales—Retail Power:

| | | | |
|------------------------|--------------|--------------|--------------|
| Reading | \$ 28,553.55 | \$ 29,910.81 | \$ 1,357.26* |
| Lynnfield Center | 560.01 | 441.59 | 118.42 |
| North Reading | 1,938.07 | 2,237.40 | 299.33* |
| Wilmington | 1,551.38 | 1,214.79 | 336.59 |

| | | | |
|--------------------------------|---------------------|---------------------|---------------------|
| Total Retail Power Inc. | \$ 32,603.01 | \$ 33,804.59 | \$ 1,201.58* |
|--------------------------------|---------------------|---------------------|---------------------|

Sales to other Electric Companies:

| | | | |
|---------------------------------|-----------|-----------|-----------|
| Wakefield | \$ 180.11 | \$ 200.80 | \$ 20.69* |
| Lowell | 82.39 | 111.86 | 29.47* |
| Lawrence | 185.28 | 139.80 | 45.48 |
| Peabody | 7.92 | 6.54 | 1.38 |
| Edison Elec. Illum. Co. of Bos. | 47.28 | 48.24 | .96* |

| | | | |
|---------------------------------------|------------------|------------------|-----------------|
| Total Sales to Other Cos. | \$ 502.98 | \$ 507.24 | \$ 4.26* |
|---------------------------------------|------------------|------------------|-----------------|

Municipal Revenue:**Street Lighting:**

| | | | |
|------------------------|--------------|--------------|-------------|
| Reading | \$ 13,500.00 | \$ 12,000.00 | \$ 1,500.00 |
| Lynnfield Center | 2,301.81 | 2,197.17 | 104.64 |
| North Reading | 4,168.29 | 4,103.99 | 64.30 |
| Wilmington | 7,224.65 | 7,656.76 | 432.11* |

| | | | |
|------------------------------------|---------------------|---------------------|--------------------|
| Total Street Lighting, Inc. | \$ 27,194.75 | \$ 25,957.92 | \$ 1,236.83 |
|------------------------------------|---------------------|---------------------|--------------------|

Buildings:

| | | | |
|----------------|-------------|-------------|-----------|
| Lighting | \$ 2,104.56 | \$ 1,915.72 | \$ 188.84 |
| Power | 265.49 | 1,053.65 | 788.16* |

| | | | |
|------------------------------------|--------------------|--------------------|-------------------|
| Total Inc.—Municipal Bldgs. | \$ 2,370.05 | \$ 2,969.37 | \$ 599.32* |
|------------------------------------|--------------------|--------------------|-------------------|

Total Income from Sales—

| | | | |
|--|---------------------|---------------------|--------------------|
| Electric Energy (See Exhibit "B") | \$276,759.47 | \$266,891.46 | \$ 9,868.01 |
| Schedule "2" | | | |

**TOWN OF READING—MUNICIPAL LIGHT DEPARTMENT
COMPARATIVE DETAILED STATEMENT OF OPERATING
EXPENSES**

For the Twelve Months Ended December 31, 1931—December 31, 1930

| | 1931 | 1930 | Increase Decrease* |
|---------------------------------|--------|----------|-----------------------|
| I Production Expenses: | | | |
| 601 Superintendence and Lab. \$ | 0.00 | \$ 62.33 | \$ 62.33* |
| 606 Boiler Fuel | 0.00 | 0.00 | 0.00 |
| 607 Water for Steam | 11.95 | 23.50 | 11.55* |
| 603 Lubricants | 3.68 | 7.47 | 3.79* |
| 609 Station Supplies | 969.96 | 1,215.48 | 245.52* |
| 611 Maint. of Station Strucs. | 126.70 | 432.91 | 306.21* |
| 612 Maint. of Boiler Plant | | | |
| Equipment | 143.36 | 15.00 | 128.36 |
| 613 Maint. of Steam Engines | 384.98 | 0.00 | 384.98 |
| 614 Maint. of Turbo-Generator | | | |
| Units | 48.38 | 0.00 | 48.38 |
| 615 Maint. of Elec. Generator | | | |
| Equipment | 0.00 | 23.11 | 23.11* |
| 616 Maint. of Accessory Elec. | | | |
| Equipment | 169.79 | 60.99 | 108.80 |

| | | | |
|------------------------------|-----------|-----------|-------|
| 617 Maint. of Miscell. Power | | | |
| Plant Equipment | 2.60 | 0.00 | 2.60 |
| 634 Elec. Energy Purchased.. | 78,230.26 | 78,151.07 | 79.19 |

| | | | |
|----------------------------------|--------------|--------------|----------|
| Total Production Expenses | \$ 80,091.66 | \$ 79,991.86 | \$ 99.80 |
|----------------------------------|--------------|--------------|----------|

| | | | |
|--|------|------|-----------------------|
| | 1931 | 1930 | Increase Decrease* |
|--|------|------|-----------------------|

II Transmission and Distribution Expenses:

| | | | |
|--|-------------|-------------|-----------|
| 636 Transformer Station and Sub Station Superin- tendence and Labor .. | \$ 8,823.29 | \$ 8,688.23 | \$ 137.06 |
| 637 Transformer Station and Sub Station Supplies and Expense | 7,271.07 | 7,218.17 | 52.90 |
| 638 Operation of Transmission and Distribution Lines | 28,914.56 | 21,831.76 | 7,082.80 |
| 639 Transmission and Distri- bution Supplies and Expense | 224.37 | 251.83 | 27.46* |
| 640 Inspecting and Testing Meters | 1,614.73 | 2,804.09 | 1,189.36* |
| 641 Removing and Resetting Meters | 1,845.77 | 2,515.50 | 669.73* |
| 642 Removing and Resetting Transformers | 483.83 | 494.08 | 10.25* |
| 646 Maintenance of Trans- former Station and sub- Station | | 13.64 | 13.64* |
| 647 Maintenance of Trans- mission and Distribu- tion Lines | 23,857.55 | 22,145.39 | 1,712.16 |
| 650 Maintenance of Con- sumers' Meters | 268.02 | 614.09 | 346.07* |
| 651 Maintenance of Trans- formers | 243.47 | 1,036.24 | 792.77* |

| | | | |
|---|--------------|--------------|-------------|
| Total Transmission and Distribution Expenses | \$ 73,543.66 | \$ 67,613.02 | \$ 5,935.64 |
|---|--------------|--------------|-------------|

| Total Production, Transmission and Distribution Expenses | | | | \$153,640.32 | \$147,604.88 | \$ 6,035.44 |
|--|--|----|-----------|--------------|--------------|-----------------------|
| | | | | 1931 | 1930 | Increase Decrease* |
| III Utilization Expenses: | | | | | | |
| 654 | Municipal Street Lamps- Labor | \$ | 1,831.19 | \$ | 1,209.65 | \$ 621.54 |
| 655 | Municipal Street Lamps- Supplies and Expenses | | 2,837.40 | | 1,204.85 | 1,632.55 |
| 657 | Maintenance of Municipal Street Lamps | | 912.84 | | 1,664.73 | 751.89* |
| 659 | Maintenance of Consumers' Installations | | 5,372.40 | | 6,072.65 | 700.25* |
| Total Utilization Expenses | | | | \$ 10,953.83 | \$ 10,151.88 | \$ 801.95 |
| IV Commercial Expenses: | | | | | | |
| 660 | Commercial Salaries | \$ | 11,298.09 | \$ | 10,575.07 | \$ 723.02 |
| 661 | Commercial Supplies and Expenses | | 3,315.06 | | 3,625.59 | 310.53* |
| Total Commercial Expenses | | | | \$ 14,613.15 | \$ 14,200.66 | \$ 412.49 |
| V New Business Expenses: | | | | | | |
| 662 | New Business Salaries .. | \$ | 2.92 | \$ | 163.33 | \$ 160.41* |
| 663 | New Business Supplies and Expenses | | — .00 | | 68.34 | 68.34* |
| 664 | Advertising | | 2,587.77 | | 3,459.63 | 871.86* |
| Total New Business Expenses | | | | \$ 2,590.69 | \$ 3,691.30 | \$ 1,100.61* |
| VI Miscellaneous and General Expenses: | | | | | | |
| 666 | Salary of Manager | \$ | 6,095.00 | \$ | 5,842.51 | \$ 252.49 |
| 667 | Salaries of General Office Clerks | | 4,622.00 | | 4,561.33 | 60.67 |
| 668 | General Office Supplies and Expenses | | 853.79 | | 1,466.55 | 612.76* |

| | | | | |
|--|--|---------------------|---------------------|--------------------|
| 669 | General Office Rents | 1,014.75 | 1,111.88 | 97.13* |
| 671 | Insurance | 5,154.61 | 5,391.74 | 237.13* |
| 673 | Accidents and Damages .. | 2.75 | 62.89 | 60.14* |
| 674 | Store Expenses | 3,875.81 | 4,093.21 | 217.40* |
| 675 | Transportation Expense | 2,110.64 | 3,229.11 | 1,118.47* |
| 676 | Inventory Adjustments .. | 4,217.25 | 1,716.26 | 2,500.99 |
| 677 | Maintenance of General Structures | 403.37 | 539.00 | 135.63* |
| 678 | Depreciation | 30,609.33 | 29,064.82 | 1,544.51 |
| 679 | Miscellaneous General Ex- pense | 702.20 | 272.39 | 429.81 |
| | | <hr/> | <hr/> | <hr/> |
| Total Miscellaneous and General Expenses | | \$ 59,661.50 | \$ 57,351.69 | \$ 2,309.81 |
| | | <hr/> | <hr/> | <hr/> |
| Total Operating Expenses | | \$241,459.49 | \$233,000.41 | \$ 8,459.08 |
| (See Exhibit "B") | | <hr/> | <hr/> | <hr/> |

Note: There were 53 payrolls in 1931 and 52 in 1930.

**TOWN OF READING—MUNICIPAL LIGHT DEPARTMENT
BONDS AND NOTES AUTHORIZED, ISSUED AND OUTSTANDING DECEMBER 31, 1931.**

BONDS:

SCHEDULE "3"

| No. Of Issue | Date Authorized | Date Issued | Amount of Original Issue | Payments of Principal | Rate of Interest | Interest Payable | Amount Retired to Jan. 1, 1931 | Amount Retired During 1931 | Balance Out- standing Dec. 31, 1931 | Accrued Interest Dec. 31, 1931 |
|-----------------|--------------------|----------------|-----------------------------|--------------------------|---------------------|---------------------|--------------------------------------|----------------------------------|---|--------------------------------------|
| 1 | August 1894 | 10-1-1894 | \$ 50,000.00 | \$1000 yearly 10 yrs | 4% | April 1-Oct. 1 | \$ 50,000.00 | \$ 0.00 | \$ 0.00 | 0.00 |
| 2 | May 1907 | 10-1-1907 | 26,000.00 | 2000 yearly 20 yrs | | | | | | |
| 3 | June 1911 | 7-15-1911 | 20,000.00 | 1000 yearly 26 yrs | 4½ | April 1-Oct. 1 | 23,000.00 | 1,000.00 | 2,000.00 | 22.50 |
| 4 | August 1913 | 10-15-1913 | 23,500.00 | 2000 yearly 10 yrs | 4 | Jan. 15-July 15 | 20,000.00 | 0.00 | 0.00 | 0.00 |
| | | | | 1500 yearly 9 yrs | 4¾ | April 15-Oct. 15 | 21,500.00 | 1,000.00 | 1,000.00 | 8.85 |
| 5 | September 1914 | 9-15-1914 | 8,000.00 | 1000 yearly 10 yrs | | | | | | |
| 6 | March 1916 | 5-15-1916 | 10,000.00 | 500 yearly 16 yrs | 4½ | March 15-Sept. 15 | 8,000.00 | 0.00 | 0.00 | 0.00 |
| 7 | March 1917 | 10-1-1917 | 55,000.00 | 500 yearly 20 yrs | 4 | Nov. 15-May 15 | 7,000.00 | 500.00 | 2,500.00 | 12.51 |
| | | | | 3000 yearly 18 yrs | 4½ | April 15-Oct. 15 | 39,000.00 | 3,000.00 | 13,000.00 | 121.87 |
| 8 | October 1918 | 1-1-1919 | 12,000.00 | 1000 yearly 1 yr. | | | | | | |
| | | | | 1000 yearly 4 yrs | 4½ | Jan. 1-July 1 | 7,500.00 | 500.00 | 4,000.00 | 90.00 |
| 9 | March 1919 | 4-1-1919 | 20,000.00 | 500 yearly 16 yrs | | | | | | |
| 10 | March 1920 | 5-1-1920 | 20,000.00 | 1000 yearly 20 yrs | 4¾ | Oct. 1-April 1 | 11,000.00 | 1,000.00 | 8,000.00 | 95.00 |
| 11 | December 1923 | 12-1-1923 | 10,000.00 | 1000 yearly 20 yrs | 5 | Nov. 1-May 1 | 10,000.00 | 1,000.00 | 9,000.00 | 75.00 |
| 12 | March 1926 | 8-1-1926 | 13,000.00 | 1000 yearly 10 yrs | 4½ | June 1-Dec. 1 | 7,000.00 | 1,000.00 | 2,000.00 | 7.50 |
| | | | | 3000 yearly 1 yr. | 4 | Feb. 1-August 1 | 9,000.00 | 2,000.00 | 2,000.00 | 33.35 |
| | | | | 2000 yearly 5 yrs | | | | | | |
| 13 | March 1930 | 6-1-1930 | 15,000.00 | 2000 yearly 5 yrs | 4 | June 1-Dec. 1 | 0.00 | 2,000.00 | 13,000.00 | 43.34 |
| 14 | March 1931 | 4-15-1931 | 40,000.00 | 1000 yearly 20 yrs | 3½ | Oct. 15-April 15 | 0.00 | 0.00 | 40,000.00 | 291.67 |
| TOTAL BONDS | | | \$322,500.00 | | | | \$213,000.00 | \$ 13,000.00 | \$ 96,500.00 | \$ 801.59 |

NOTES:

| | | | | | | | | | | | |
|------------|------|------------|-------------|--------------------|-------|-------|------------------|-------------|------|---------|------|
| 1 March | 1895 | 5-1-1896 | \$ 7,000.00 | 1400 yearly | 5 yrs | 4% | Nov. 1-May 1 | \$ 7,000.00 | 0.00 | \$ 0.00 | 0.00 |
| 2 March | 1896 | 5-1-1896 | 7,000.00 | 1400 yearly | 5 yrs | 4 | Nov. 1-May 1 | 7,000.00 | 0.00 | 0.00 | 0.00 |
| 3 December | 1896 | 12-9-1896 | 1,500.00 | 1500 yearly | 1 yr. | 4 | June 9-Dec. 9 | 1,500.00 | 0.00 | 0.00 | 0.00 |
| 4 March | 1898 | 7-15-1898 | 3,000.00 | 1000 July 15, 1901 | 3 3/4 | 3 3/4 | Jan. 15-July 15 | 3,000.00 | 0.00 | 0.00 | 0.00 |
| 5 March | 1903 | 12-7-1903 | 1,400.00 | 2000 July 15, 1904 | 4 | 4 | June 7-Dec. 7 | 1,400.00 | 0.00 | 0.00 | 0.00 |
| 6 March | 1909 | 11-15-1909 | 2,500.00 | 1000 Dec. 7, 1906 | 4 | 4 | May 15-Nov. 15 | 2,500 | 0.00 | 0.00 | 0.00 |
| 7 Nov. | 1909 | 1-21-1910 | 1,800.00 | 1500 Nov. 15, 1911 | 4 | 4 | July 21-Jan. 21 | 1,800.00 | 0.00 | 0.00 | 0.00 |
| 8 Jan. | 1910 | 3-27-1910 | 12,000.00 | 1800 Jan. 3, 1913 | 4 | 4 | Sept. 27-Mar. 27 | 12,000.00 | 0.00 | 0.00 | 0.00 |
| 9 June | 1911 | 7-2-1911 | 2,200.00 | 1000 yearly 12 yrs | 4 | 4 | Jan. 12-July 12 | 2,200.00 | 0.00 | 0.00 | 0.00 |
| 10 March | 1913 | 4-16-1913 | 13,500.00 | 2200 July 12, 1912 | 4 1/4 | 4 1/4 | Oct. 16-April 16 | 13,500.00 | 0.00 | 0.00 | 0.00 |
| 11 March | 1915 | 5-15-1915 | 12,000.00 | 1500 yearly 9 yrs | 4 | 4 | Nov. 15-May 15 | 12,000.00 | 0.00 | 0.00 | 0.00 |
| 12 March | 1915 | 7-15-1915 | 4,000.00 | 800 yearly 15 yrs | 4 | 4 | Jan. 15-July 15 | 4,000.00 | 0.00 | 0.00 | 0.00 |
| 13 March | 1917 | 9-22-1917 | 6,500.00 | 500 yearly 8 yrs. | 5 | 5 | Mar. 22-Sept. 22 | 6,500.00 | 0.00 | 0.00 | 0.00 |
| 14 Nov. | 1919 | 11-20-1919 | 3,000.00 | 500 yearly 13 yrs. | 5 | 5 | May 20-Nov. 20 | 3,000.00 | 0.00 | 0.00 | 0.00 |
| 15 March | 1921 | 7-1-1921 | 7,000.00 | 1500 yearly 2 yrs. | 6 | 6 | Jan. 1-July 1 | 7,000.00 | 0.00 | 0.00 | 0.00 |
| 16 Dec. | 1922 | 12-15-1922 | 7,000.00 | 1000 yearly 7 yrs. | 4 1/4 | 4 1/4 | June 15-Dec. 15 | 7,000.00 | 0.00 | 0.00 | 0.00 |

TOTAL NOTES

\$91,400.00

\$ 91,400.00

TOTAL BONDS AND NOTES

\$413,900.00

\$ 13,000.00

\$ 96,500.00

\$ 801.59

SCHEDULE "4"

TOWN OF READING—MUNICIPAL LIGHT DEPARTMENT COMPARATIVE GROSS REVENUE BY TOWNS

For the Twelve Months Ended December 31, 1931—December 31, 1930

| | READING | | LYNNFIELD | | NORTH READING | | WILMINGTON | |
|-----------------------------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|
| | 1931 | 1930 | 1931 | 1930 | 1931 | 1930 | 1931 | 1930 |
| Gross Revenue—Residence Lighting | \$ 97,841.90 | \$ 83,174.15 | \$ 13,769.93 | \$ 10,787.54 | \$ 21,498.56 | \$ 16,948.79 | \$ 38,944.91 | \$ 32,661.42 |
| Kilowatt Hours Sold | 1,930,447 | 1,749,344 | 232,608 | 189,367 | 336,553 | 281,703 | 619,014 | 557,063 |
| Gross Revenue Commercial Lighting | \$ 26,946.62 | \$ 23,178.51 | \$ 1,459.38 | \$ 1,451.46 | \$ 3,917.44 | \$ 3,693.84 | \$ 7,331.35 | \$ 6,275.34 |
| Kilowatt Hours Sold | 401,767 | 361,849 | 16,134 | 19,144 | 41,762 | 43,078 | 83,928 | 76,356 |
| Gross Revenue—Commerc'l Heating | \$ 5,532.88 | \$ 4,230.84 | \$ 523.59 | \$ 397.59 | \$ 1,022.67 | \$ 1,144.60 | \$ 1,578.33 | \$ 1,169.79 |
| Kilowatt Hours Sold | 158,245 | 132,187 | 14,242 | 11,501 | 23,456 | 26,752 | 37,458 | 30,711 |
| Gross Revenue Wholesale Power | \$ 9,698.20 | \$ 7,744.23 | \$ 0.00 | \$ 0.00 | \$ 1,736.10 | \$ 785.55 | \$ 35.40 | \$ 10,008.69 |
| Kilowatt Hours Sold | 263,180 | 392,413 | — | — | 78,600 | 36,900 | 1,200 | 539,000 |
| Gross Revenue—Retail Power | \$ 31,452.91 | \$ 29,910.81 | \$ 602.60 | \$ 441.59 | \$ 2,136.40 | \$ 2,237.40 | \$ 1,700.76 | \$ 1,214.79 |
| Kilowatt Hours Sold | 934,593 | 949,838 | 7,901 | 6,604 | 30,919 | 38,551 | 26,599 | 20,057 |
| Gross Revenue—Street Light | \$ 13,500.00 | \$ 12,000.00 | \$ 2,301.81 | \$ 2,197.17 | \$ 4,198.80 | \$ 4,103.99 | \$ 7,224.65 | \$ 7,656.76 |
| Kilowatt Hours Sold | 324,162 | 298,730 | 11,969 | 12,257 | 27,303 | 27,656 | 58,023 | 49,614 |
| Gross Revenue—Municipal Power .. | \$ 4,315.69 | \$ 1,053.65 | | | | | | |
| Kilowatt Hours Sold | 198,865 | 41,167 | | | | | | |
| Gross Revenue—Municipal Light .. | \$ 2,104.56 | \$ 1,915.72 | | | | | | |
| Kilowatt Hours Sold | 104,556 | 98,495 | | | | | | |

TOWN OF READING—MUNICIPAL LIGHT DEPARTMENT

Schedule "5"

DETAIL OF KILOWATT HOURS BOUGHT, SOLD, USED AND
UNACCOUNTED FOR

Twelve Months Ended December 31, 1931

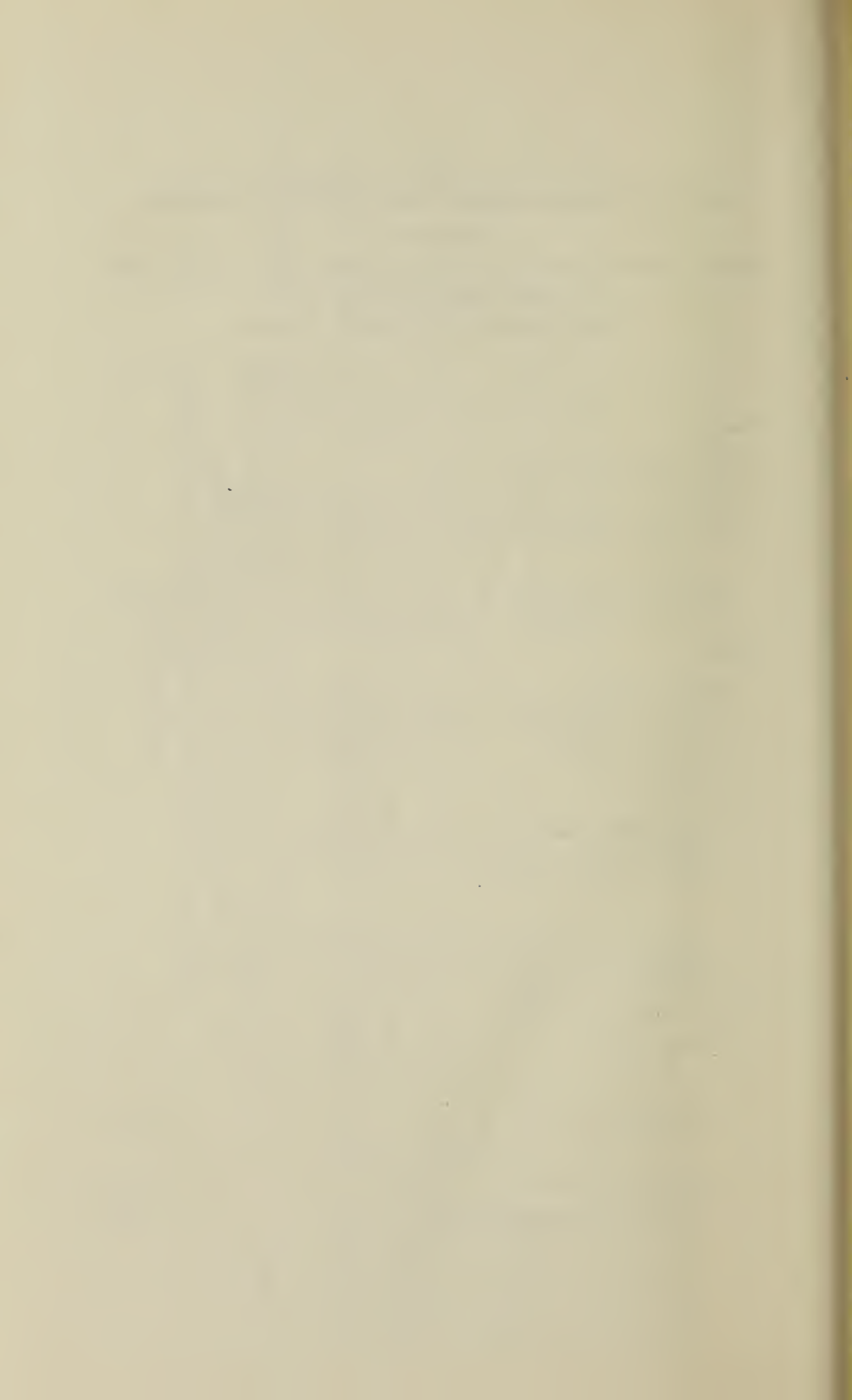
K. W. H. K. W. H.

Bought:

| | | |
|--|-----------|-----------|
| Edison Elec. Illuminating Co. of Boston | 6,884,000 | |
| Lowell Elec. Light Corp. | 1,880 | |
| | <hr/> | |
| Total K. W. H. Bought | | 6,885,880 |

Sold:

| | | |
|----------------------------------|-----------|-----------|
| Residence Lighting | 3,118,622 | |
| Commercial Lighting | 543,591 | |
| Commercial Heating | 233,401 | |
| Wholesale Power | 342,980 | |
| Retail Power | 1,001,116 | |
| Municipal Street Lights | 421,457 | |
| Municipal Power | 198,865 | |
| Municipal Light for Buildings .. | 104,556 | |
| | <hr/> | |
| Total Sold | | 5,964,588 |
| Used by Town of Reading: | | |
| Office, Station and Garage | 52,634 | |
| Christmas Lighting | 10,788 | 63,422 |
| | <hr/> | <hr/> |
| Total Accounted For | | 6,028,010 |
| | | <hr/> |
| Unaccounted For | | 857,870 |
| Per cent Unaccounted For | | 12.45% |



ANNUAL REPORT
OF THE
TOWN ACCOUNTANT

RECEIPTS AND EXPENDITURES
For the Year Ended December 31
1931

REPORT OF TOWN ACCOUNTANT

Receipts 1931

Grace V. Viall, Collector

| | |
|----------------------------------|-------------|
| Poll Taxes | \$ 5,202.00 |
| Personal Estate Taxes | 35,512.20 |
| Real Estate Taxes | 462,823.28 |
| Interest on same | 7,411.84 |
| Motor Vehicle Excise Taxes | 23,489.66 |
| Interest on same | 264.28 |
| Moth Assessments | 925.50 |
| Sewer Assessments | 2,756.82 |
| Interest on same | 265.91 |
| Sewer Rentals | 9,426.12 |
| Interest on same | 91.69 |
| Sidewalk Assessments | 622.12 |
| Interest on same | 7.57 |
| Refunds, Etc. | 68.00 |
| Redemption of Property | 170.30 |
| Old Age Assistance | 2,517.00 |
| Highway Betterments | 57.75 |

 \$551,612.04

Preston F. Nichols, Treasurer

| | |
|--|-----------|
| Interest on deposits | \$ 962.72 |
| Sidewalk and Curbing Work Charges | 111.56 |
| Moth and Tree Work Charges | 1,090.15 |
| Rental of Truck | 589.75 |
| Redemption of property taken, | |
| Taxes, interest, etc. | 2,514.73 |
| Additional interest | 130.29 |
| Additional costs | 72.43 |

Cemetery Bequest Fund:

| | |
|--------------------|-------------|
| Bequests | \$ 2,930.00 |
| Income | 1,260.00 |
| For Transfer | 1,811.84 |

Hospital Fund:

| | |
|--------------------------|----------|
| Adjustment | \$ 25.71 |
| Refund | 15.00 |
| Income | 4,752.50 |
| For Transfer | 51.87 |
| Sale of Securities | 5,106.25 |

Reading High School Scholarship Fund:

| | |
|---|--------------|
| Income | \$ 145.00 |
| For Transfer | 2,300.00 |
| Loans, Anticipation of Revenue | 325,000.00 |
| Mun. Lt. Dept. Reimbursement | 13,978.19 |
| Bond Issues, Premiums and Accrued Interest: | |
| Water Dept. Extension | \$ 50,000.00 |
| Premium | 420.00 |
| Accrued Interest | 58.33 |
| Municipal Light Dept. | 40,000.00 |
| Premium | 336.00 |
| Accrued Interest | 46.67 |
| Salem St. Loan | 8,000.00 |

 \$461,708.99

\$ 1,379.75

County of Middlesex Dog Tax

Commonwealth of Massachusetts: Taxes, etc.

| | |
|----------------------------------|--------------|
| Income Tax | \$ 53,608.05 |
| Corporation Tax | 7,576.86 |
| Public Service Tax | 96.86 |
| National Bank Tax | 865.07 |
| Trust Company Tax | 255.21 |
| Soldiers' Exemption | 76.82 |
| State Aid, Reimbursement | 108.00 |
| Military Aid Reimbursement | 2.50 |
| Fire Prevention | 1.02 |
| Sewerage, Boston Harbor | 36.79 |
| Water and Light | 707.76 |
| Railway and Telephone | 1,863.69 |
| Street Railway | 497.85 |
| Old Age Assistance | 38.00 |
| Gasoline Tax | 5,543.30 |

 \$ 71,277.78

Board of Selectmen: Licenses, etc.:

| | |
|---------------------------------|-----------|
| Second Hand Motor Vehicle | \$ 100.00 |
| Motor Bus | 240.00 |
| Taxi Cab | 13.00 |
| Truck | 16.00 |
| Victualers | 30.00 |
| Lord's Day | 155.00 |
| Inn Holder | 1.00 |
| Third Class Liquor | 1.00 |
| Theatre | 5.00 |

| | | |
|-------------------------------------|-------------|-----------|
| Peddle Oils | 10.00 | |
| Auctioneers | 10.00 | |
| Bowling and Pool | 20.00 | |
| Old Metal Dealer | 1.00 | |
| Revolver | 23.50 | |
| Amusement | 20.00 | |
| Advertising Hearings | 42.00 | |
| Transfers | 2.00 | |
| | | <hr/> |
| | | \$ 689.50 |
| Special Fund for Unemployed | \$ 302.16 | |
| Rents, Municipal Property | 50.00 | |
| | | <hr/> |
| | | \$ 352.16 |
| Police Department: | | |
| Court Fines | \$ 595.00 | |
| Miscellaneous | 100.00 | |
| | | <hr/> |
| | | \$ 695.00 |
| Fire Department: | | |
| Sale Junk, etc. | | \$ 69.25 |
| Sealer of Weights and Measures: | | |
| Fees | | \$ 58.72 |
| Inspector of Milk: | | |
| Fees | | \$ 26.00 |
| Commonwealth of Massachusetts: | | |
| Peddlers' Licenses | | \$ 15.00 |
| Board of Health, Licenses etc: | | |
| Hair Dressers | \$ 13.00 | |
| Denatured Alcohol | 9.00 | |
| Slaughtering | 100.00 | |
| Pasteurizing | 10.00 | |
| Reimbursements | 201.84 | |
| Division of Tuberculosis | 332.14 | |
| | | <hr/> |
| | | \$ 665.98 |
| Board of Public Works: | | |
| Highway Department: | | |
| Commonwealth Massachusetts | \$ 4,000.00 | |
| County of Middlesex | 4,000.00 | |
| Snow Removal | 19.00 | |
| Highway Department Sales, etc. | 1,250.00 | |

| | |
|---------------------------------|------|
| Highway Department Refund | 2.16 |
|---------------------------------|------|

\$ 9,271.16

Board of Public Welfare:

Commonwealth of Massachusetts,
Reimbursements

| | |
|--|-------------|
| Mothers' Aid | \$ 1,095.55 |
| Temporary Aid | 2,648.64 |
| Commonwealth of Massachusetts and Cities and Towns Reimbursements | 3,757.52 |
| Hospital Fund Reimbursement | 1,003.13 |
| Misc. Receipts, Refunds | 158.50 |
| Special Fund | 1,062.12 |

\$ 9,725.46

School Department:

City of Boston

| | |
|---|------------|
| Tuition, City Wards | \$ 889.66 |
| Town of North Reading Tuition | 6,223.82 < |
| Town of Tewksbury Tuition | 114.00 |
| Sundry Parties, Tuition | 185.00 |
| Commonwealth of Massachusetts Aid to Agricultural School | 1,437.07 |
| Commonwealth of Massachusetts Vocational Education | 509.57 |
| Smith-Hughes Fund | 175.96 |
| George Reed Fund | 38.23 |
| Rents | 77.00 |
| Sundry Receipts | 45.68 ✓ |

\$ 9,695.99

Public Library:

| | |
|------------------|-----------|
| Fines, etc. | \$ 488.32 |
|------------------|-----------|

Cemetery Department:

| | |
|--|-------------|
| Sale Lots and Graves | \$ 1,867.50 |
| Interest on deferred payments, etc. | 25.69 |
| Care Lots and Graves etc. | 2,966.00 |
| Bequest Fund for care endowed lots | 1,811.84 |
| For care of Soldiers' Graves | 117.40 |

\$ 6,788.43

Guarantee Deposits:

| | |
|---------------------------------|-------------|
| Sewer House Connections | \$ 1,803.77 |
| Cemetery Work | 365.00 |
| Sidewalk and Curbing Work | 433.61 |

\$ 2,602.38

Water Department:

| | |
|-----------------------|--------------|
| Meter Rates etc | \$ 58,052.04 |
|-----------------------|--------------|

Municipal Light Department:

| | |
|--------------------------------|--------------|
| Light, Power, Rates, etc. | \$319,715.49 |
| Refund | 18.75 |

Insurance Account:

| | |
|----------------------------------|-----------|
| Municipal Light Department | \$ 905.75 |
| Water Department | 353.90 |
| Cemetery Department | 13.65 |
| Highway Department | 11.20 |

\$ 1,284.50

Other Refunds:

| | |
|------------------------------|-----------|
| Insurance Account | \$ 494.34 |
| Interest | 58.00 |
| Park Department | 28.27 |
| Police Building | 238.05 |
| G. F. Buck Fund | 36.14 |
| Fire Alarm | 11.50 |
| Soldiers' Relief | 5.00 |
| Damage to Truck | 114.75 |
| Water System Extension | 43.45 |

\$ 1,029.50

Other Receipts:

| | |
|------------------------|----------|
| Sewer Dept. | \$ 59.97 |
| Coupon Account | 149.99 |
| Building Permits | 124.00 |
| Telephone Tolls | 1.70 |
| Sundry Receipts | 43.14 |

\$ 378.80

Total Receipts \$1,507,600.99

PAYMENTS

GENERAL GOVERNMENT

| | |
|--------------------------------|-----------|
| Selectmen's Expenses | \$ 305.26 |
| Selectmen's Clerical | 1,310.00 |
| Town Accountant's Salary | 2,000.00 |

| | |
|--|----------|
| Treasurer's Salary | 1,200.00 |
| Treasurer's Expenses | 621.83 |
| Collector's Salary | 2,300.00 |
| Collector's Expenses | 1,295.71 |
| Collector's Clerical | 400.00 |
| Assessors' Salaries | 1,800.00 |
| Assessors' Expenses | 1,528.73 |
| Assessors' Clerical | 2,756.00 |
| Block System Survey | 510.38 |
| Town Counsel's Salary | 500.00 |
| Town Counsel's Expenses | 147.02 |
| Town Clerk's Salary | 350.00 |
| Town Clerk's Expenses | 599.60 |
| Bd. of Pub. Wks. Sal. and Off. Exp. | 5,960.45 |
| Registrars' Salaries | 250.00 |
| Election and Registration Expenses | 639.93 |

\$ 24,474.96

GENERAL ACCOUNTS

| | |
|---|-------------|
| Miscellaneous Expenses | \$ 3,543.69 |
| Unemployment Relief | 580.70 |
| Municipal Building Maintenance | 2,403.79 |
| Fire Stations, Maintenance | 1,183.63 |
| Police Station, Maintenance | 943.45 |
| G. A. R. Rooms, Light | 6.03 |
| Insurance | 5,751.12 |
| Interest | 20,801.34 |
| Maturing Debt, not including Water, Light or Sewer | 52,000.00 |
| Planning Board Expenses | 102.46 |

\$ 87,316.26

PROTECTION OF PERSONS AND PROPERTY

| | |
|--|-------------|
| Police Dept., Maintenance | \$ 2,604.99 |
| Police Dept. Salaries and Spec. Officers | 31,564.31 |
| Fire Dept., Maintenance | 2,807.20 |
| Fire Dept., Salaries | 19,800.00 |
| Fire Dept., Call Men, Salaries | 3,367.00 |
| Fire Alarm, Maintenance | 1,569.19 |
| Moth Dept., Maintenance | 5,998.52 |
| Tree Warden, Maintenance | 2,979.92 |
| Forest Warden, Maintenance | 153.93 |
| Hydrant Rentals | 8,015.00 |
| Drinking Fountains | 100.00 |

| | |
|--------------------------------------|--------|
| Inspector of Buildings, Salary | 500.00 |
| Inspector of Wires, Salary | 200.00 |
| Gas Inspector | 100.00 |
| Sealer of W. and M., Salary | 500.00 |
| Sealer of W. and M., Expenses | 182.75 |
| Game Warden | 100.00 |

\$ 80,542.81

HEALTH AND SANITATION

| | |
|--|-----------|
| Board of Health, Salaries | \$ 300.00 |
| Board of Health, Expenses | 586.07 |
| Inspector of Plumbing, Salary | 800.00 |
| Inspector of Animals, Salary | 200.00 |
| Inspector of Milk and Food, Salary | 200.00 |
| Care of Contagious Diseases | 2,966.30 |
| Garbage Collection | 2,300.00 |
| Dental Clinic | 500.00 |
| Sewer Dept., Maintenance: | |
| Construction | 7,035.72 |
| House Connections | 1,854.95 |

\$ 16,743.04

HIGHWAYS

| | |
|----------------------------------|--------------|
| Highway Dept., Maintenance | \$ 43,902.06 |
| Sidewalk Construction | 8,000.00 |
| Snow and Ice Removal | 5,699.93 |
| Maintenance Storm Drains | 2,991.23 |
| Drainage System | 13,149.75 |
| Care of Dumps | 593.14 |
| Salem St. Construction | 12,000.00 |

\$ 86,336.11

Street Lighting \$ 13,500.00

CHARITIES AND AID

| | |
|--------------------------------------|-----------|
| Board of Public Welfare: | |
| Visitor's Salary | \$ 600.00 |
| Visitor's Salary, Old Age Asst. | 200.00 |
| Clerical Salary | 352.00 |
| Aid, Board and Care | 20,250.63 |
| Mothers' Aid | 4,812.01 |
| Temporary Aid | 4,055.88 |
| Old Age Assistance | 4,266.62 |

| | | |
|--------------------|--------|--------------|
| Special Fund | 547.18 | |
| | <hr/> | \$ 35,034.32 |

SOLDIERS' BENEFITS

| | | |
|------------------------|-----------|--------------|
| State Aid | \$ 182.00 | |
| Soldiers' Relief | 10,800.69 | |
| | <hr/> | \$ 10,982.69 |

SCHOOLS

| | | |
|--------------------------------|--------------|--------------|
| School Department: | | |
| General Maintenance | \$ 55,262.63 | |
| General Salaries | 188,354.36 | |
| Agricultural Maintenance | 170.18 | |
| Agricultural Salaries | 2,941.59 | |
| Vocational Tuition | 1,155.47 | |
| | <hr/> | \$247,884.23 |

LIBRARY

| | | |
|----------------------------------|-------------|-------------|
| Public Library Maintenance | \$ 3,121.69 | |
| Public Library Salaries | 4,798.67 | |
| | <hr/> | \$ 7,920.36 |

RECREATION

| | | |
|-------------------------------|-------------|--|
| Park Dept., Maintenance | \$ 6,027.27 | |
|-------------------------------|-------------|--|

UNCLASSIFIED

| | | |
|--|-----------|-------------|
| Memorial Day Observance | \$ 600.00 | |
| Veteran Post No. 194 G. A. R. Rent | 360.00 | |
| Reading Post No. 62 American Legion, Rent .. | 1,000.00 | |
| Care Soldiers' Graves | 600.00 | |
| Child Welfare Work | 400.00 | |
| Middlesex County Bureau of Agriculture | 60.00 | |
| Smith-Hughes & George Reed Fund for Agr. | | |
| Salary | 205.87 | |
| Building Laws Expense | 359.00 | |
| | <hr/> | \$ 3,584.87 |

STATE AND COUNTY TAXES**and Assessments**

| | | |
|-----------------------------|--------------|--|
| State Tax | \$ 15,900.00 | |
| County Tax | 29,136.96 | |
| State Highway Tax | 355.99 | |
| Corpn. Public Service | .02 | |

| | |
|--------------------------------------|----------|
| Municipal Lighting Tax | 93.45 |
| National Bank & Trust Co. | 3.03 |
| Metropolitan Sewer Assessments | 7,962.52 |
| Old Age Assistance | 3,127.00 |
| State Parks Tax | 224.06 |

\$ 56,803.03

PUBLIC SERVICE ENTERPRISES

Municipal Light Department:

| | |
|------------------------------------|--------------|
| Maintenance and Construction | \$286,380.68 |
| Bond Payments | 13,000.00 |
| Interest Payments | 3,675.00 |
| Refund to Treasurer | 13,975.81 |

Municipal Light Dept. Extension:

| | |
|--------------------|-------------|
| Vote of 1930 | \$ 3,057.75 |
| Vote of 1931 | 42,338.97 |

Water Department:

| | |
|------------------------------------|--------------|
| Maintenance and Construction | \$ 40,439.81 |
| Bond Payments | 8,000.00 |
| Interest Payments | 2,805.00 |

Water Dept. Extension:

| | |
|-----------------------------------|-------------|
| New Stand Pipe Vote of 1930 | \$ 5,374.77 |
|-----------------------------------|-------------|

Water Dept. Extension, Pipe Lines:

| | |
|--------------------|-----------|
| Vote of 1931 | 15,660.98 |
|--------------------|-----------|

Water Dept. Extension, New Pumping Station:

| | |
|--------------------|-----------|
| Vote of 1931 | 30,146.09 |
|--------------------|-----------|

CEMETERIES

| | |
|---|--------------|
| Laurel Hill Cemetery, Maintenance | \$ 13,324.58 |
| Forest Glen Cemetery, Development | 1,246.10 |

\$14,570.68

OTHER PAYMENTS

| | |
|---|-----------|
| Fire Alarm Box Article 39 | \$ 263.86 |
| Land Damage Article 28 | 400.00 |
| Forest Fire Pump Article 37 | 758.69 |
| Premium Account | 384.80 |
| Personal Injuries Article 14 | 133.00 |
| Personal Injuries Article 11 | 28.00 |
| Damage Suit Settlement Article 16 | 1,250.00 |
| Land Purchase Junior High School | 3,400.00 |
| Land Purchase A. D. Gordon | 374.06 |
| Traffic Signs | 499.49 |
| Drainage System Survey | 240.01 |

| | |
|--|----------------|
| Athletic Field Survey | 368.15 |
| Underground Wire Installation Fire and Police Signals | 2,000.00 |
| Land Development Junior High School Article 17 | 5,000.00 |
| Land Purchase Birch Meadow Article 12 | 3.13 |
| Public Playground Birch Meadow | 2,377.89 |
| Police Station Building | 9,052.33 |
| Town Forest | 699.14 |
| Hospital Fund, payment of bills | 5,658.79 |
| Hospital Fund for Transfer | 5,143.75 |
| Cemetery Bequest Fund for Cemetery Care .. | 1,811.84 |
| Cemetery Bequest Fund for Transfer | 4,190.00 |
| R. H. S. Fund for Scholarships | 300.00 |
| R. H. S. Scholarship Fund for transfer | 2,145.00 |
| George F. Buck Fund for Signs | 36.14 |
| Temporary Loans | 275,000 00 |
| Salem Street Loan | 8,000.00 |
| Refunds from Guarantee Deposits | 115.00 |
| Refunds Personal and Real Estate Taxes | 88.99 |
| Refunds Motor Vehicle Excise Taxes | 464.15 |
| Sundry Payments | 30.00 |
| | <hr/> |
| | \$330,216.21 |
| Total Payments | \$1,486,741.70 |

TREASURER'S CASH

| | |
|--------------------------------------|-----------------|
| Balance on hand Jan. 1, 1931 | \$ 90,838.69 |
| Receipts, 1931 | 1,507,600.99 |
| | <hr/> |
| | \$ 1,598,439.68 |
| Payments, 1931 | 1,486,741.70 |
| | <hr/> |
| Balance on hand, Dec. 31, 1931 | \$ 111,697.98 |

APPROPRIATIONS FOR 1931
GENERAL GOVERNMENT

| | |
|--------------------------------|-----------|
| Selectmen's Expenses | \$ 300.00 |
| Selectmen's Clerical | 1,310.00 |
| Town Accountant's Salary | 2,000.00 |
| Treasurer's Salary | 1,200.00 |
| Treasurer's Expenses | 600.00 |
| Collector's Salary | 2,300.00 |
| Collector's Expenses | 1,300.00 |
| Collector's Clerical | 400.00 |
| Assessor's Salaries | 1,800.00 |
| Assessor's Expenses | 1,600.00 |

| | |
|---|----------|
| Assessor's Clerical | 2,756.00 |
| Block System Survey | 500.00 |
| Town Counsel's Salary | 500.00 |
| Town Counsel's Expenses | 150.00 |
| Town Clerk's Salary | 350.00 |
| Town Clerk's Expenses | 600.00 |
| Board of Pub. Wrks. Salary and Off. Exp. | 6,000.00 |
| Registrars' Salaries | 250.00 |
| Election and Registration Expenses | 500.00 |

\$ 24,416.00

GENERAL ACCOUNTS

| | |
|---|-------------|
| Miscellaneous Expenses | \$ 2,500.00 |
| Municipal Bldg., Maintenance | 2,500.00 |
| Fire Stations, Maintenance and Repairs | 1,200.00 |
| Police Station, Maintenance | 900.00 |
| G. A. R. Rooms, Light | 25.00 |
| Insurance | 4,100.00 |
| Interest | 26,850.00 |
| Planning Board Expenses | 500.00 |
| Maturing Debt, not including Water, Light, Sewer | 27,000.00 |

\$ 65,575.00

PROTECTION OF PERSONS AND PROPERTY

| | |
|--|-------------|
| Police Dept., Maintenance | \$ 2,800.00 |
| Police Dept., Salaries and Special Officers | 31,750.00 |
| Fire Dept., Maintenance | 3,140.00 |
| Fire Dept., Salaries | 19,800.00 |
| Fire Dept., Call Men Salaries | 3,367.00 |
| Fire Alarm, Maintenance | 1,405.00 |
| Moth Dept., Maintenance | 6,000.00 |
| Tree Warden, Maintenance | 3,000.00 |
| Forest Warden, Maintenance | 500.00 |
| Inspector of Buildings, Salary | 500.00 |
| Inspector of Wires, Salary | 200.00 |
| Sealer of W. and M., Salary | 500.00 |
| Sealer of W. and M., Expenses | 225.00 |
| Gas Inspector, Salary | 100.00 |
| Game Warden, Salary | 100.00 |

\$ 73,387.00

| | |
|--------------------------|-------------|
| Hydrant Rentals | \$ 8,015.00 |
| Drinking Fountains | 100.00 |

\$ 8,115.00

HEALTH AND SANITATION

| | |
|--|-----------|
| Board of Health, Salaries | \$ 300.00 |
| Board of Health, Expenses | 600.00 |
| Inspector of Plumbing, Salary | 800.00 |
| Inspector of Animals, Salary | 200.00 |
| Inspector of Milk and Food, Salary | 200.00 |
| Care of Contagious Diseases | 3,000.00 |
| Garbage Collection | 2,300.00 |
| Dental Clinic | 500.00 |

\$ 7,900.00

HIGHWAYS AND SIDEWALKS

| | |
|-----------------------------------|--------------|
| Highway Dept., Maintenance | \$ 44,000.00 |
| Sidewalk Construction | 8,000.00 |
| Snow and Ice Removal | 5,000.00 |
| Maintenance of Storm Drains | 3,000.00 |
| Care of Dumps | 600.00 |

\$ 60,600.00

| | |
|-----------------------|--------------|
| Street Lighting | \$ 13,500.00 |
|-----------------------|--------------|

CHARITIES AND AID

Board of Public Welfare:

| | |
|---|-----------|
| Visitor's Salary | \$ 600.00 |
| Visitor's Salary Old Age Assistance | 200.00 |
| Clerical Salary | 352.00 |
| Aid, Board and Care | 20,000.00 |
| Mother's Aid | 4,000.00 |
| Temporary Aid | 3,250.00 |
| Old Age Assistance | 4,000.00 |

\$ 32,402.00

SOLDIERS' BENEFITS

| | |
|------------------------|-----------|
| State Aid | \$ 200.00 |
| Military Aid | 100.00 |
| Soldiers' Relief | 11,000.00 |

\$ 11,300.00

EDUCATION**School Department:**

| | |
|--------------------------------|--------------|
| General Maintenance | \$ 56,450.00 |
| General Salaries | 188,500.00 |
| Agricultural Maintenance | 300.00 |
| Agricultural Salaries | 3,000.00 |
| Industrial Tuition | 1,200.00 |

 \$249,450.00

| | |
|-----------------------------------|-------------|
| Public Library, Maintenance | \$ 3,200.00 |
| Public Library, Salaries | 4,800.00 |

 \$ 8,000.00
RECREATION

| | |
|-------------------------------|-------------|
| Park Dept., Maintenance | \$ 6,000.00 |
|-------------------------------|-------------|

CEMETERIES

| | |
|---|-------------|
| Laurel Hill Cemetery, Maintenance | \$ 8,900.00 |
| Forest Glen Cemetery, Development | 1,250.00 |

 \$ 10,150.00
MEMORIAL DAY

| | |
|-------------------------------|-----------|
| Memorial Day Observance | \$ 600.00 |
|-------------------------------|-----------|

OTHER APPROPRIATIONS

| | |
|--|--------------|
| Storm Water Drainage System | \$ 14,000.00 |
| Child Welfare Work | 400.00 |
| Middlesex County Bu. of Agr. | 75.00 |
| Reading Post No. 62 Am. Legion Rent | 1,000.00 |
| Veteran Post No. 194 G. A. R. Rent | 360.00 |
| Care Soldiers' Graves | 600.00 |
| Traffic Signs | 500.00 |
| Town Forest | 700.00 |
| A. E. Merrill, Personal Injury | 150.00 |
| W. H. Killam, Damages | 1,250.00 |
| J. H. School, Land Purchase | 3,400.00 |
| J. H. S. Land Development | 5,000.00 |
| Public Playground Land, Birch Meadow | 2,000.00 |
| Athletic Field Survey | 500.00 |
| Reserve Fund | 5,000.00 |
| Salem St. Construction | 4,000.00 |
| Land Purchase, A. D. Gordon | 380.00 |
| Land Damages | 400.00 |
| Forest Fire Pump | 800.00 |

| | | |
|---|----------|--------------|
| Underground Wire Installation | 2,000.00 | |
| Fire Alarm Box | 350.00 | |
| H. L. Robertson, Personal Injury | 28.00 | |
| | | <hr/> |
| | | \$ 42,893.00 |
| Total Appropriations from Tax Levy | | \$614,288.00 |
| | | <hr/> |
| Appropriated from Excess and Deficiency Acct. | | \$ 25,000.00 |

RECAPITULATION

| | | |
|-----------------------------------|--------------|--------------|
| Town Expenses, Debt, Etc. | \$614,288.00 | |
| State Taxes and Assessments | 24,536.02 | |
| County Taxes | 29,136.96 | |
| Old Age Assistance | 3,019.00 | |
| | | <hr/> |
| | | \$670,979.98 |
| Overlay | | 2,585.27 |
| | | <hr/> |
| | | \$673,565.25 |

**VALUATION
1931**

| | |
|--------------------|-----------------|
| Real Estate | \$15,037,625.00 |
| Personal Estate .. | 1,151,824.00 |
| | <hr/> |
| | \$16,189,449.00 |
| Tax Rate \$32.40 | |
| Taxes | |
| Real Estate Tax .. | 487,219.03 |
| Personal Estate .. | 37,319.17 |
| | <hr/> |
| | \$ 524,538.25 |

APPROPRIATIONS

| | |
|-------------------------------------|---------------|
| Town Exp. Debt, etc. | \$ 614,288.00 |
| State Tax | 15,900.00 |
| State Highway Tax | 355.99 |
| State Parks Tax .. | 224.06 |
| Metropolitan Sewer Assessments | 7,962.52 |
| Municipal Lighting Tax | 93.45 |
| Old Age Assistance Tax | 3,019.00 |
| County Tax | 26,413.07 |
| County Hospital Tax | 2,723.89 |
| | <hr/> |
| | \$670,979.98 |
| Overlay | 2,585.27 |
| | <hr/> |
| | \$673,565.25 |
| Poll Taxes, 3,004 at \$2.00 | 6,008.00 |
| Old Age Assistance Tax | 3,019.00 |
| | <hr/> |
| | \$ 533,565.25 |
| Less Estimated Receipts: | |
| General Revenue .. | 115,000.00 |
| Motor Vehicle Excise Tax | 25,000.00 |
| | <hr/> |
| | \$533,565.25 |

STATE AND COUNTY TAXES, ASSESSMENTS, ETC.**1931**

| | |
|--------------------------------------|--------------|
| State Tax | \$ 15,900.00 |
| State Highway Tax | 355.99 |
| Metropolitan Sewer Assessments | 7,962.52 |
| Municipal Lighting Tax | 93.45 |
| State Parks Tax | 224.06 |
| Old Age Assistance Tax | 3,019.00 |
| County Tax | 26,413.07 |
| County Hospital Tax | 2,723.89 |

 \$ 56,691.98
TAXES 1928

| | | |
|--|----------|----------|
| Balance uncollected Jan. 1, 1931 | \$ 16.25 | |
| Abatements in 1931 | | \$ 16.25 |
| | <hr/> | <hr/> |
| | \$ 16.25 | \$ 16.25 |

TAXES 1929

| | | |
|--|-----------|-----------|
| Balance uncollected Jan. 1, 1931 | \$ 932.19 | |
| Collected in 1931 | | \$ 929.22 |
| Abatements in 1931 | | 2.97 |
| | <hr/> | <hr/> |
| | \$ 932.19 | \$ 932.19 |

TAXES 1930

| | | |
|---|--------------|--------------|
| Balance uncollected Jan. 1, 1931 | \$178,771.33 | |
| Commitments additional | 15.13 | |
| Adjustments | 14.75 | |
| Refunds | 28.95 | |
| Collected in 1931 | | \$173,719.72 |
| Abatements in 1931 | | 721.90 |
| Transfers to Tax Titles | | 2,607.35 |
| Balance uncollected Dec. 31, 1931 | | 1,781.19 |
| | <hr/> | <hr/> |
| | \$178,830.16 | \$178,830.16 |

TAXES 1931

| | | |
|-------------------------------|--------------|--------------|
| Commitments | \$530,564.25 | |
| Re-assessments | 9.88 | |
| Adjustments | 2.00 | |
| Refunds | 51.04 | |
| Collected in 1931 | | \$328,888.54 |
| Abatements in 1931 | | 1,607.73 |
| Transfers to Tax Titles | | 4,345.65 |

| | | |
|---|---------------------|---------------------|
| Balance uncollected Dec. 31, 1931 | | 195,785.25 |
| | <u>\$530,627.17</u> | <u>\$530,627.17</u> |

OLD AGE ASSISTANCE TAX 1931

| | | |
|---|--------------------|--------------------|
| Commitments | \$ 3,036.00 | |
| Collected in 1931 | | \$ 2,517.00 |
| Refunded by Commonwealth | | 38.00 |
| Balance uncollected Dec. 31, 1931 | | 481.00 |
| | <u>\$ 3,036.00</u> | <u>\$ 3,036.00</u> |

MOTOR VEHICLE EXCISE TAX 1929

| | | |
|---|--------------------|--------------------|
| Balance Jan. 1, 1931 | \$ 1,196.34 | |
| Collected in 1931 | | \$ 626.76 |
| Abatements | | 546.60 |
| Balance uncollected Dec. 31, 1931 | | 22.98 |
| | <u>\$ 1,196.34</u> | <u>\$ 1,196.34</u> |

MOTOR VEHICLE EXCISE TAX 1930

| | | |
|---|--------------------|--------------------|
| Balance Jan. 1, 1931 | \$ 5,234.04 | |
| Refunds 1931 | 36.30 | |
| Collected in 1931 | | \$ 4,160.03 |
| Abatements in 1931 | | 104.59 |
| Balance uncollected Dec. 31, 1931 | | 1,005.72 |
| | <u>\$ 5,270.34</u> | <u>\$ 5,270.34</u> |

MOTOR VEHICLE EXCISE TAX 1931

| | | |
|---|---------------------|---------------------|
| Commitments | \$ 23,056.19 | |
| Refunds | 427.85 | |
| Collected in 1931 | | \$ 18,702.87 |
| Abatements | | 1,198.24 |
| Balance uncollected Dec. 31, 1931 | | 3,582.93 |
| | <u>\$ 23,484.04</u> | <u>\$ 23,484.04</u> |

MOTH AND TREE WORK ASSESSMENTS 1930

| | | |
|---|------------------|------------------|
| Balance Jan. 1, 1931 | \$ 426.25 | |
| Transferred from Tax Titles | 1.25 | |
| Collected in 1931 | | \$ 411.50 |
| Adjustment | | 14.75 |
| Balance uncollected Dec. 31, 1931 | | 1.25 |
| | <u>\$ 427.50</u> | <u>\$ 427.50</u> |

MOTH AND TREE WORK ASSESSMENT OF 1931

| | | |
|---|-----------|-----------|
| Commitment | \$ 899.00 | |
| Collected in 1931 | | \$ 514.00 |
| Balance uncollected Dec. 31, 1931 | | 385.00 |
| | <hr/> | <hr/> |
| | \$ 899.00 | \$ 899.00 |

SIDEWALK AND CURBING ASSESSMENTS UNAPPORTIONED

| | | |
|--|-------------|-------------|
| Balance Jan. 1, 1931 | \$ 383.29 | |
| Charges 1931 | 2,922.03 | |
| Collected in 1931 | | \$ 236.74 |
| Transferred to Deferred Payments | | 2,798.58 |
| Adjustment | | 20.00 |
| | <hr/> | <hr/> |
| | \$ 3,105.32 | \$ 3,105.32 |

SIDEWALK AND CURBING ASSESSMENT APPORTIONED 1931

| | | |
|---|-----------|-----------|
| Commitment | \$ 637.00 | |
| Collected in 1931 | | \$ 335.38 |
| Balance uncollected Dec. 31, 1931 | | 301.62 |
| | <hr/> | <hr/> |
| | \$ 637.00 | \$ 637.00 |

INTEREST ON SIDEWALK AND CURBING ASSESSMENTS 1931

| | | |
|---|----------|----------|
| Commitment | \$ 26.00 | |
| Additional Interest | 1.27 | |
| Collected in 1931 | | \$ 7.57 |
| Balance uncollected Dec. 31, 1931 | | 19.70 |
| | <hr/> | <hr/> |
| | \$ 27.27 | \$ 27.27 |

SIDEWALK AND CURBING ASSESSMENT APPORTIONED**1931-1940**

| | | |
|---------------------------------------|-------------|-------------|
| Assessments Apportioned | \$ 2,044.13 | |
| Committed to Collector for 1931 | | \$ 637.00 |
| Balance due from 1932-1940 | | 1,407.13 |
| | <hr/> | <hr/> |
| | \$ 2,044.13 | \$ 2,044.13 |

HIGHWAY BETTERMENT ASSESSMENTS

| | | |
|-----------------------------|-----------|-----------|
| Commitment 1931 | \$ 391.71 | |
| Collected in 1931 | | \$ 57.75 |
| Abatement 1931 | | 7.58 |
| Apportioned 1932-1941 | | 326.38 |
| | <hr/> | <hr/> |
| | \$ 391.71 | \$ 391.71 |

HIGHWAY BETTERMENT ASSESSMENTS APPORTION 1932-1941

| | | |
|------------------------------|-----------|-----------|
| Commitment Apportioned | \$ 326.38 | |
| Balance Uncollected | | \$ 326.38 |
| | <hr/> | |
| | \$ 326.38 | \$ 326.38 |

SEWER ASSESSMENTS UNAPPORTIONED

| | | |
|--------------------------------|-------------|-------------|
| Balance Jan. 1, 1931 | \$ 2,339.38 | |
| Commitment 1931 | 2,518.91 | |
| Adjustment | 2.45 | |
| Collected in 1931 | | \$ 728.53 |
| Apportioned 1932 to 1941 | | 4,054.83 |
| Adjustments | | 77.38 |
| | <hr/> | <hr/> |
| | \$ 4,860.74 | \$ 4,860.74 |

SEWER ASSESSMENT APPORTIONED 1929

| | | |
|----------------------------|----------|----------|
| Balance Jan. 1, 1931 | \$ 81.04 | |
| Collected in 1931 | | \$ 81.04 |
| | <hr/> | <hr/> |
| | \$ 81.04 | \$ 81.04 |

SEWER ASSESSMENT APPORTIONED 1930

| | | |
|---------------------------------|-----------|-----------|
| Balance Jan. 1, 1931 | \$ 659.84 | |
| Adjustment | 1.01 | |
| Collected in 1931 | | \$ 655.62 |
| Transferred to Tax Titles | | 5.23 |
| | <hr/> | <hr/> |
| | \$ 660.85 | \$ 660.85 |

SEWER ASSESSMENTS APPORTIONED 1931

| | | |
|---|-------------|-------------|
| Commitment | \$ 2,184.33 | |
| Collected in 1931 | | \$ 1,063.12 |
| Transferred to Tax Titles | | 8.44 |
| Balance uncollected Dec. 31, 1931 | | 1,112.77 |
| | <hr/> | <hr/> |
| | \$ 2,184.33 | \$ 2,184.33 |

INTEREST ON SEWER ASSESSMENTS

| | | |
|---|-----------|-----------|
| Balance Jan. 1, 1931 | \$ 115.29 | |
| Commitment 1931 | 273.15 | |
| Additional Charges 1931 | 102.25 | |
| Adjustments | 14.09 | |
| Collected in 1931 | | \$ 357.73 |
| Transferred to Tax Titles | | 1.52 |
| Adjustments | | 23.27 |
| Balance uncollected Dec. 31, 1931 | | 122.26 |
| | <hr/> | <hr/> |
| | \$ 504.78 | \$ 504.78 |

SEWER ASSESSMENTS APPORTIONED**Deferred Payments 1931-1941**

| | | |
|--|-------------|-------------|
| Balance Jan. 1, 1931 | \$ 2,716.09 | |
| Assessments Apportioned 1931 to 1941 | 4,054.85 | |
| Collected in 1931 Advance Payments | | \$ 228.51 |
| Committed to Collector for 1931 | | 2,184.33 |
| Balance due from 1932-1941 | | 4,358.10 |
| | <hr/> | <hr/> |
| | \$ 6,770.94 | \$ 6,770.94 |

SEWER RENTALS

| | | |
|---|--------------|--------------|
| Balance Jan. 1, 1931 | \$ 566.10 | |
| Commitments in 1931 | 9,450.86 | |
| Collected in 1931 | | \$ 9,426.12 |
| Abatements | | 39.32 |
| Transferred to Tax Titles | | 161.40 |
| Balance uncollected Dec. 31, 1931 | | 390.12 |
| | <hr/> | <hr/> |
| | \$ 10,016.96 | \$ 10,016.96 |

CEMETERY LOTS SOLD**Deferred Payments**

| | | |
|----------------------------|-------------|-------------|
| Balance Jan. 1, 1931 | \$ 400.00 | |
| Charges 1931 | 700.00 | |
| Collected in 1931 | | \$ 987.50 |
| Balance to 1932 | | 112.50 |
| | <hr/> | <hr/> |
| | \$ 1,100.00 | \$ 1,100.00 |

CEMETERY BEQUESTS**Deferred Payments**

| | | |
|----------------------------|-----------|-----------|
| Balance Jan. 1, 1931 | \$ 312.50 | |
| Charges in 1931 | 550.00 | |
| Collected in 1931 | | \$ 775.00 |
| Balance to 1932 | | 87.50 |
| | <hr/> | <hr/> |
| | \$ 862.50 | \$ 862.50 |

OVERLAY 1928

| | | |
|----------------------------|----------|----------|
| Balance Jan. 1, 1931 | | \$ 16.25 |
| Abatements in 1931 | \$ 16.25 | |
| | <hr/> | <hr/> |
| | \$ 16.25 | \$ 16.25 |

OVERLAY 1929

| | | |
|-----------------------------------|--------|-----------|
| Balance Jan. 1, 1931 | | \$ 932.19 |
| Abatements | 2.97 | |
| Transfer to Overlay Reserve | 929.22 | |
| | | <hr/> |
| | 932.19 | \$ 932.19 |

OVERLAY 1930

| | | |
|-----------------------------------|-------------|-------------|
| Balance Jan. 1, 1931 | | \$ 2,690.37 |
| Adjustment | | 28.95 |
| Abatements | \$ 750.85 | |
| Transfer to Overlay Reserve | 187.28 | |
| Balance to 1932 | 1,781.19 | |
| | | <hr/> |
| | \$ 2,719.32 | \$ 2,719.32 |

OVERLAY 1931

| | | |
|-----------------------|-------------|-------------|
| Appropriation | | \$ 2,585.27 |
| Re-assessment | | 9.88 |
| Adjustments | | 44.94 |
| Abatements | \$ 1,652.67 | |
| Balance to 1932 | 987.42 | |
| | | <hr/> |
| | \$ 2,640.09 | \$ 2,640.09 |

OVERLAY RESERVE FUND

| | | |
|-----------------------------------|-------------|-------------|
| Balance Jan. 1, 1931 | | \$ 2,476.33 |
| Transfer from Overlay, 1929 | | 929.22 |
| Transfer from Overlay, 1930 | | 187.28 |
| Balance to 1932 | \$ 3,592.83 | |
| | | <hr/> |
| | \$ 3,592.83 | \$ 3,592.83 |

DEPARTMENTAL ACCOUNTS**Receivable**

| | | |
|------------------------------|--------------|--------------|
| Balance Jan. 1, 1931 | | \$ 9,887.04 |
| Charges | | 39,570.13 |
| Receipts | \$ 22,072.92 | |
| Credits, Etc. | 3.00 | |
| Committed to Collector | 899.00 | |
| Balance to 1932 | 26,482.25 | |
| | | <hr/> |
| | \$ 49,457.17 | \$ 49,457.17 |

WATER DEPARTMENT**Accounts Receivable**

Dr.

| | |
|--|-----------|
| Balance Jan. 1, 1931 | \$ 587.93 |
| Meter Rates, Etc., Charged in 1931 | 59,112.32 |

Cr.

| | |
|---------------------------------|--------------|
| Receipts, 1931 | \$ 58,052.04 |
| Discounts and Adjustments | 463.83 |
| Balance Dec. 31, 1931 | 1,184.38 |

| | |
|--------------|--------------|
| \$ 59,700.25 | \$ 59,700.25 |
|--------------|--------------|

MUNICIPAL LIGHT DEPARTMENT**Accounts Receivable**

Dr.

| | |
|--|--------------|
| Balance Jan. 1, 1931 | \$ 33,649.32 |
| Light, Power, Etc., charged 1931 | 341,930.52 |
| Adjustments | 127.31 |

Cr.

| | |
|---------------------------------|--------------|
| Receipts, 1931 | \$319,715.49 |
| Discounts and Adjustments | 24,943.49 |
| Balance Dec. 31, 1931 | 31,048.17 |

| | |
|--------------|--------------|
| \$375,707.15 | \$375,707.15 |
|--------------|--------------|

TAX TITLES HELD BY TOWN

Dr.

| | |
|--------------------------------------|-------------|
| Balance Jan. 1, 1931 | \$ 8,499.67 |
| Titles taken for taxes of 1930 | 2,607.35 |
| for Sewer Rentals 1930 | 161.40 |
| for Sewer Ass't. and Int. | 5.23 |
| Additional interests and costs | 479.00 |
| Taxes of 1931 | 4,345.65 |
| Sewer Ass'ts. 1931 | 9.96 |
| Adjustment | 232.47 |

Cr.

| | |
|-------------------------------|-------------|
| Receipts for redemption | \$ 2,879.55 |
| Adjustment, Moth charge | 1.25 |
| Adjustments, Taxes | 514.63 |
| Balance Dec. 31, 1931 | 12,945.30 |

| | |
|--------------|--------------|
| \$ 16,340.73 | \$ 16,340.73 |
|--------------|--------------|

CEMETERY RESERVE FUND

Cr.

| | |
|--------------------------------------|-------------|
| Balance Jan. 1, 1931 | \$ 3,595.90 |
| Receipts, Sale Lots and Graves | 1,867.50 |

| | | | |
|-----------------------|-----|----------|-------------|
| Interest | | | 25.69 |
| | Dr. | | |
| Appropriation | \$ | 2,500.00 | |
| Balance to 1932 | | 2,989.09 | |
| | | | |
| | \$ | 5,489.09 | \$ 5,489.09 |

RESERVE FUND

| | | | |
|------------------------------------|-----|----------|-------------|
| | Cr. | | |
| Appropriation | | \$ | 5,000.00 |
| | Dr. | | |
| Transfers to Sundry Accounts | \$ | 4,889.93 | |
| Balance to Revenue | | 110.07 | |
| | | | |
| | \$ | 5,000.00 | \$ 5,000.00 |

EXCESS AND DEFICIENCY ACCOUNT

| | | | |
|--|-----|-----------|--------------|
| | Cr. | | |
| Balance from 1930 | | \$ | 42,145.18 |
| Receipts, Redemption of Property | | | 2,879.55 |
| Transfers | | | 4,505.15 |
| Commitment | | | 30.00 |
| | Dr. | | |
| Appropriation | \$ | 25,000.00 | |
| To Tax Titles Revenue ... | | 6,953.00 | |
| Adjustment | | .16 | |
| Balance to 1932 | | 17,606.72 | |
| | | | |
| | \$ | 49,559.88 | \$ 49,559.88 |

APPROPRIATION ACCOUNTS**Selectmen's Expenses**

| | | | |
|----------------------------------|-----|--------|-----------|
| | Cr. | | |
| Appropriation | \$ | 300.00 | |
| Transfer from Reserve Fund | | 50.00 | |
| | Dr. | | |
| Stationery and Postage | \$ | 14.06 | |
| Printing and Advertising | | 155.69 | |
| Telephone | | 102.31 | |
| All Other | | 33.20 | |
| | | | |
| Total Payments | \$ | 305.26 | |
| Balance to Revenue | | 44.74 | |
| | | | |
| | \$ | 350.00 | \$ 350.00 |

Selectmen's Clerical

Cr.

| | | |
|---------------------|--|-------------|
| Appropriation | | \$ 1,310.00 |
|---------------------|--|-------------|

Dr.

| | | |
|--------------------|-------------|--|
| Leon G. Bent | \$ 1,310.00 | |
|--------------------|-------------|--|

| | | |
|--|--------------------|--------------------|
| | <u>\$ 1,310.00</u> | <u>\$ 1,310.00</u> |
|--|--------------------|--------------------|

Town Accountant's Salary

Cr.

| | | |
|---------------------|--|-------------|
| Appropriation | | \$ 2,000.00 |
|---------------------|--|-------------|

Dr.

| | | |
|--------------------|-------------|--|
| Leon G. Bent | \$ 2,000.00 | |
|--------------------|-------------|--|

| | | |
|--|--------------------|--------------------|
| | <u>\$ 2,000.00</u> | <u>\$ 2,000.00</u> |
|--|--------------------|--------------------|

Treasurer's Salary

Cr.

| | | |
|---------------------|--|-------------|
| Appropriation | | \$ 1,200.00 |
|---------------------|--|-------------|

Dr.

| | | |
|--------------------------|-------------|--|
| Preston F. Nichols | \$ 1,200.00 | |
|--------------------------|-------------|--|

| | | |
|--|--------------------|--------------------|
| | <u>\$ 1,200.00</u> | <u>\$ 1,200.00</u> |
|--|--------------------|--------------------|

Treasurer's Expenses

Cr.

| | | |
|---------------------|--|-----------|
| Appropriation | | \$ 600.00 |
|---------------------|--|-----------|

| | | |
|----------------------------------|--|-------|
| Transfer from Reserve Fund | | 50.00 |
|----------------------------------|--|-------|

Dr.

| | | |
|------------------------------|-----------|--|
| Stationery and Postage | \$ 179.13 | |
|------------------------------|-----------|--|

| | | |
|------------------------------|-------|--|
| Certification of Notes | 44.00 | |
|------------------------------|-------|--|

| | | |
|--------------------------|--------|--|
| Bond and Insurance | 296.95 | |
|--------------------------|--------|--|

| | | |
|-----------------|-------|--|
| Telephone | 80.05 | |
|-----------------|-------|--|

| | | |
|-----------------|-------|--|
| All Other | 21.70 | |
|-----------------|-------|--|

| | | |
|----------------------|-----------|--|
| Total Payments | \$ 621.83 | |
|----------------------|-----------|--|

| | | |
|--------------------------|-------|--|
| Balance to Revenue | 28.17 | |
|--------------------------|-------|--|

| | | |
|--|------------------|------------------|
| | <u>\$ 650.00</u> | <u>\$ 650.00</u> |
|--|------------------|------------------|

Tax Collector's Salary

Cr.

| | | |
|---------------------|--|-------------|
| Appropriation | | \$ 2,300.00 |
|---------------------|--|-------------|

Dr.

| | | |
|----------------------|-------------|--|
| Grace V. Viall | \$ 2,300.00 | |
|----------------------|-------------|--|

| | | |
|--|--------------------|--------------------|
| | <u>\$ 2,300.00</u> | <u>\$ 2,300.00</u> |
|--|--------------------|--------------------|

Tax Collector's Expenses

Cr.

| | | |
|---------------------|--|-------------|
| Appropriation | | \$ 1,300.00 |
|---------------------|--|-------------|

Dr.

| | |
|--------------------------------|-----------|
| Stationery and Postage | \$ 426.00 |
| Printing and Advertising | 232.30 |
| Bond and Insuring | 470.78 |
| Registry of Deeds | 68.75 |
| Telephone | 51.30 |
| All Others | 46.58 |

| | |
|----------------------|-------------|
| Total Payments | \$ 1,295.71 |
|----------------------|-------------|

| | |
|--------------------------|------|
| Balance to Revenue | 4.29 |
|--------------------------|------|

| | |
|-------------|-------------|
| \$ 1,300.00 | \$ 1,300.00 |
|-------------|-------------|

Tax Collector's Clerical

Cr.

| | |
|---------------------|-----------|
| Appropriation | \$ 400.00 |
|---------------------|-----------|

Dr.

| | |
|-----------------------|-----------|
| Various Parties | \$ 400.00 |
|-----------------------|-----------|

| | |
|-----------|-----------|
| \$ 400.00 | \$ 400.00 |
|-----------|-----------|

Board of Assessors' Salaries

Cr.

| | |
|---------------------|-------------|
| Appropriation | \$ 1,800.00 |
|---------------------|-------------|

| | |
|------------------------|--------|
| Geo. E. Horrocks | 600.00 |
|------------------------|--------|

| | |
|----------------------|--------|
| Alvah W. Clark | 600.00 |
|----------------------|--------|

| | |
|----------------------|--------|
| Arthur S. Cook | 500.00 |
|----------------------|--------|

| | |
|--------------------------|--------|
| J. Fred Richardson | 100.00 |
|--------------------------|--------|

| | |
|-------------|-------------|
| \$ 1,800.00 | \$ 1,800.00 |
|-------------|-------------|

Board of Assessors' Expenses

Cr.

| | |
|---------------------|-------------|
| Appropriation | \$ 1,600.00 |
|---------------------|-------------|

Dr.

| | |
|---------------------------|-----------|
| Assistant Assessors | \$ 401.50 |
|---------------------------|-----------|

| | |
|-------------------------------|--------|
| Stationery and Printing | 157.72 |
|-------------------------------|--------|

| | |
|--------------------------|--------|
| Printing Poll List | 680.60 |
|--------------------------|--------|

| | |
|-----------------|-------|
| Auto Hire | 92.00 |
|-----------------|-------|

| | |
|-----------------|-------|
| Telephone | 55.49 |
|-----------------|-------|

| | |
|-----------------|-------|
| Transfers | 53.87 |
|-----------------|-------|

| | | | |
|--------------------------|-------------|-------|----------|
| All Other | 87.60 | | |
| Total Payments | \$ 1,528.78 | | |
| Balance to Revenue | 71.22 | | |
| | <hr/> | <hr/> | <hr/> |
| | \$ 1,600.00 | \$ | 1,600.00 |

Board of Assessors' Clerical

| | | | |
|-----------------------------|-------------|-------|----------|
| | Cr. | | |
| Appropriation | | \$ | 2,756.00 |
| | Dr. | | |
| Christine F. Atkinson | \$ 1,560.00 | | |
| Philomena C. Doucette | 1,196.00 | | |
| | <hr/> | <hr/> | <hr/> |
| | \$ 2,756.00 | \$ | 2,756.00 |

Block System Survey

| | | | |
|--------------------------|-----------|-------|--------|
| | Cr. | | |
| Balance from 1930 | | \$ | 39.13 |
| Appropriation | | | 500.00 |
| | Dr. | | |
| Davis & Abbott | \$ 510.38 | | |
| Balance to Revenue | 28.75 | | |
| | <hr/> | <hr/> | <hr/> |
| | \$ 539.13 | \$ | 539.13 |

Town Counsel's Salary

| | | | |
|-----------------------|-----------|-------|--------|
| | Cr. | | |
| Appropriation | | \$ | 500.00 |
| | Dr. | | |
| Samuel H. Davis | \$ 500.00 | | |
| | <hr/> | <hr/> | <hr/> |
| | \$ 500.00 | \$ | 500.00 |

Town Counsel's Expenses

| | | | |
|--------------------------|-----------|-------|--------|
| | Cr. | | |
| Appropriation | | \$ | 150.00 |
| | Dr. | | |
| Sundry Expenses | \$ 147.02 | | |
| Balance to Revenue | 2.98 | | |
| | <hr/> | <hr/> | <hr/> |
| | \$ 150.00 | \$ | 150.00 |

Town Clerk's Salary

| | | | |
|---------------------|-----|----|--------|
| | Cr. | | |
| Appropriation | | \$ | 350.00 |

Dr.

| | | | | |
|--------------------------|----|--------|----|--------|
| Millard F. Charles | \$ | 350.00 | | |
| | | <hr/> | | |
| | \$ | 350.00 | \$ | 350.00 |

Town Clerk's Expenses

Cr.

| | | | | |
|---------------------|--|--|----|--------|
| Appropriation | | | \$ | 600.00 |
|---------------------|--|--|----|--------|

Dr.

| | | | | |
|------------------------------|----|--------|--|--|
| Canvassing Births | \$ | 65.00 | | |
| Recording, Etc. | | 293.50 | | |
| Stationery and Postage | | 57.15 | | |
| Reporting Returns | | 45.25 | | |
| Bond | | 10.00 | | |
| Clerical Assistance | | 77.25 | | |
| Printing | | 51.45 | | |
| | | <hr/> | | |

| | | | | |
|--------------------------|----|--------|--|--|
| Total Payments | \$ | 599.60 | | |
| Balance to Revenue | | .40 | | |
| | | <hr/> | | |

| | | | | |
|--|----|--------|----|--------|
| | \$ | 600.00 | \$ | 600.00 |
|--|----|--------|----|--------|

Board of Public Works

Cr.

| | | | | |
|---------------------|--|--|----|----------|
| Appropriation | | | \$ | 6,000.00 |
|---------------------|--|--|----|----------|

Dr.

| | | | | |
|-------------------------------------|----|----------|--|--|
| Superintendent's Salary | \$ | 3,363.38 | | |
| Clerical | | 1,628.75 | | |
| Bonds | | 31.90 | | |
| Office Supplies and Equipment | | 412.83 | | |
| Telephone | | 233.72 | | |
| Insurance | | 139.62 | | |
| All Other | | 150.25 | | |
| | | <hr/> | | |

| | | | | |
|--------------------------|----|----------|--|--|
| Total Payments | \$ | 5,960.45 | | |
| Balance to Revenue | | 39.55 | | |
| | | <hr/> | | |

| | | | | |
|--|----|----------|----|----------|
| | \$ | 6,000.00 | \$ | 6,000.00 |
|--|----|----------|----|----------|

Miscellaneous Expenses

Cr.

| | | | | |
|----------------------------------|--|--|----|----------|
| Appropriation | | | \$ | 2,500.00 |
| Transfer from Reserve Fund | | | | 1,700.00 |

Dr.

| | | | | |
|-----------------------------|----|----------|--|--|
| Printing Town Reports | \$ | 1,497.61 | | |
|-----------------------------|----|----------|--|--|

| | | |
|--|-------------|-------------|
| Stationery and Printing, Accounting Dept. | 322.38 | |
| Old South Clock and Reading Sign, care and lighting | 306.89 | |
| Finance Com. Expense | 50.00 | |
| Board of Appeal Expense | 34.75 | |
| Inspector of Buildings, Expense | 6.00 | |
| Clerical | 763.50 | |
| Unemployed Pay Roll Account | 580.70 | |
| All Other | 25.85 | |
| Damage Settlements | 526.51 | |
| Inspector of Wires, Expense | 10.20 | |
| | | <hr/> |
| Total Payments | \$ 4,124.39 | |
| Balance to Revenue | 75.61 | |
| | | <hr/> |
| | \$ 4,200.00 | \$ 4,200.00 |

Board of Registrars' Salaries

| | | |
|---------------------------------|-----------|-----------|
| Cr. | | |
| Appropriation | | \$ 250.00 |
| Dr. | | |
| Walter S. Prentiss | \$ 60.00 | |
| Owen McKenney | 60.00 | |
| Robert S. Ralston | 60.00 | |
| Millard F. Charles, Clerk | 70.00 | |
| | | <hr/> |
| | \$ 250.00 | \$ 250.00 |

Election Expenses

| | | |
|---|-----------|-----------|
| Cr. | | |
| Appropriation | | \$ 500.00 |
| Transfers from Reserve Fund | | 139.93 |
| Dr. | | |
| Election Officers | \$ 338.93 | |
| Rent of Hall | 108.00 | |
| Printing | 176.25 | |
| Installing Booths and Additional Equipment .. | 16.75 | |
| | | <hr/> |
| Total Payments | \$ 639.93 | \$ 639.93 |

Municipal Building, Maintenance

| | | |
|--------------------------|-------------|-------------|
| Cr. | | |
| Appropriation | | \$ 2,500.00 |
| Dr. | | |
| Janitor's Services | \$ 1,060.00 | |

| | |
|-----------------------------|--------|
| Fuel | 160.57 |
| Light | 296.36 |
| Water and Sewer | 34.90 |
| Repairs and Equipment | 683.48 |
| Supplies | 132.16 |
| All Other | 36.32 |

| | |
|--------------------------|-------------|
| Total Payments | \$ 2,403.79 |
| Balance to Revenue | 96.21 |

| | |
|-------------|-------------|
| \$ 2,500.00 | \$ 2,500.00 |
|-------------|-------------|

Fire Stations, Maintenance

Cr.

| | |
|---------------------|-------------|
| Appropriation | \$ 1,200.00 |
|---------------------|-------------|

Dr.

| | |
|---------------------------|-----------|
| Fuel | \$ 385.64 |
| Light | 104.14 |
| Water and Sewer | 63.03 |
| Repairs and Grading | 573.35 |
| All Other | 57.52 |

| | |
|--------------------------|-------------|
| Total Payments | \$ 1,183.68 |
| Balance to Revenue | 16.32 |

| | |
|-------------|-------------|
| \$ 1,200.00 | \$ 1,200.00 |
|-------------|-------------|

Police Station Maintenance

Cr.

| | |
|----------------------------------|-----------|
| Appropriation | \$ 900.00 |
| Transfer from Reserve Fund | 50.00 |

Dr.

| | |
|------------------------|-----------|
| Janitor Services | \$ 238.60 |
| Light | 97.42 |
| Water and Sewer | 74.31 |
| Repairs | 21.48 |
| Fuel | 448.77 |
| Supplies | 43.95 |
| All other | 18.92 |

| | |
|--------------------------|-----------|
| Total payments | \$ 943.45 |
| Balance to Revenue | 6.55 |

| | | |
|-------------|-----------|-----------|
| Total | \$ 950.00 | \$ 950.00 |
|-------------|-----------|-----------|

G. A. R. Rooms, Lighting

Cr.

| | | | |
|---------------------|--|----|-------|
| Appropriation | | \$ | 25.00 |
|---------------------|--|----|-------|

Dr.

| | | | |
|----------------------------|----|-------|--|
| Municipal Light Dept. | \$ | 6.03 | |
| Balance to Revenue | | 18.97 | |

| | | |
|----------|-------|-------|
| | <hr/> | <hr/> |
| \$ 25.00 | \$ | 25.00 |

G. A. R. Rooms, Rent

Cr.

| | | | |
|---------------------|--|----|--------|
| Appropriation | | \$ | 360.00 |
|---------------------|--|----|--------|

Dr.

| | | | |
|--------------------|----|--------|--|
| M. E. Brande | \$ | 360.00 | |
|--------------------|----|--------|--|

| | | |
|-----------|-------|--------|
| | <hr/> | <hr/> |
| \$ 360.00 | \$ | 360.00 |

Insurance

Cr.

| | | | |
|---------------------|----|----------|--|
| Appropriation | \$ | 4,100.00 | |
| Refunds | | 494.34 | |

Dr.

| | | | |
|---------------------------------|----|----------|--|
| Various Parties, Premiums | \$ | 4,466.62 | |
| Balance to Revenue | | 127.72 | |

| | | |
|-------------|-------|----------|
| | <hr/> | <hr/> |
| \$ 4,594.34 | \$ | 4,594.34 |

Interest

Cr.

| | | | |
|---------------------|--|----|-----------|
| Appropriation | | \$ | 26,850.00 |
|---------------------|--|----|-----------|

Dr.

| | | | |
|-------------------------------|----|-----------|--|
| Interest on Temp. Loans | \$ | 4,823.84 | |
| All Other | | 15,914.50 | |

| | | | |
|--------------------------|----|-----------|--|
| Total Payments | \$ | 20,743.34 | |
| Balance to Revenue | | 6,106.66 | |

| | | |
|--------------|-------|-----------|
| | <hr/> | <hr/> |
| \$ 26,850.00 | \$ | 26,850.00 |

Police Department, Maintenance

Cr.

| | | | |
|---------------------|--|----|----------|
| Appropriation | | \$ | 2,800.00 |
|---------------------|--|----|----------|

Dr.

| | | | |
|------------------------------------|----|----------|--|
| Telephone | \$ | 197.40 | |
| Auto and Motor Cycle Expense | | 1,122.60 | |
| Chief's Expenses | | 82.46 | |

| | |
|--|--------|
| Police, Traffic Signals and Street Lines | 888.81 |
| Printing | 24.50 |
| Equipment | 153.53 |
| All Other | 135.69 |

| | |
|--------------------------|-------------|
| Total Payments | \$ 2,604.99 |
| Balance to Revenue | 195.01 |

| | |
|-------------|-------------|
| \$ 2,800.00 | \$ 2,800.00 |
|-------------|-------------|

**Police Department, Salaries
and Special Officers**

Cr.

| | |
|---------------------|--------------|
| Appropriation | \$ 31,750.00 |
|---------------------|--------------|

Dr.

| | |
|--------------------------|--------------|
| Pay Rolls | \$ 31,564.31 |
| Balance to Revenue | 185.69 |

| | |
|--------------|--------------|
| \$ 31,750.00 | \$ 31,750.00 |
|--------------|--------------|

Fire Department Maintenance

Cr.

| | |
|---------------------|-------------|
| Appropriation | \$ 3,140.00 |
|---------------------|-------------|

Dr.

| | |
|--|-----------|
| Telephones | \$ 111.93 |
| Equipment, Repairs and Maintenance | 2,637.42 |
| All Other | 57.85 |

| | |
|--------------------------|-------------|
| Total Payments | \$ 2,807.20 |
| Balance to Revenue | 332.80 |

| | |
|-------------|-------------|
| \$ 3,140.00 | \$ 3,140.00 |
|-------------|-------------|

Fire Department, Salaries

Cr.

| | |
|---------------------|--------------|
| Appropriation | \$ 19,800.00 |
|---------------------|--------------|

Dr.

| | |
|-----------------|--------------|
| Pay Rolls | \$ 19,800.00 |
|-----------------|--------------|

| | |
|--------------|--------------|
| \$ 19,800.00 | \$ 19,800.00 |
|--------------|--------------|

Fire Department, Call Men, Salaries

Cr.

| | |
|---------------------|-------------|
| Appropriation | \$ 3,367.00 |
|---------------------|-------------|

Dr.

| | |
|-----------------|-------------|
| Pay Rolls | \$ 3,367.00 |
|-----------------|-------------|

| | |
|-------------|-------------|
| \$ 3,367.00 | \$ 3,367.00 |
|-------------|-------------|

Fire Alarm Maintenance

Cr.

| | |
|-----------------------------------|-------------|
| Appropriation | \$ 1,405.00 |
| Transfers from Reserve Fund | 300.00 |

Dr.

| | |
|-----------------------------|-----------|
| Supt, Salary | \$ 250.00 |
| Pay Roll | 543.91 |
| Auto Expense | 9.60 |
| Material and Supplies | 706.06 |
| All Other | 48.12 |

| | |
|--------------------------|-------------|
| Total Payments | \$ 1,557.69 |
| Balance to Revenue | 147.31 |

| | |
|-------------|-------------|
| \$ 1,705.00 | \$ 1,705.00 |
|-------------|-------------|

Forest Warden, Maintenance

Cr.

| | |
|---------------------|-----------|
| Appropriation | \$ 500.00 |
|---------------------|-----------|

Dr.

| | |
|-----------------|----------|
| Pay Roll | \$ 15.00 |
| Supplies | 110.93 |
| All Other | 28.00 |

| | |
|--------------------------|-----------|
| Total Payments | \$ 153.93 |
| Balance to Revenue | 346.07 |

| | |
|-----------|-----------|
| \$ 500.00 | \$ 500.00 |
|-----------|-----------|

Moth Department, Maintenance

Cr.

| | |
|---------------------|-------------|
| Appropriation | \$ 6,000.00 |
|---------------------|-------------|

Dr.

| | |
|-----------------------------|-------------|
| Pay Roll | \$ 4,076.82 |
| Telephone | 29.99 |
| Auto Expense | 450.09 |
| Rent | 144.00 |
| Material and Supplies | 917.84 |
| Insurance | 300.63 |
| All Other | 79.15 |

| | |
|--------------------------|-------------|
| Total Payments | \$ 5,998.52 |
| Balance to Revenue | 1.48 |

| | |
|-------------|-------------|
| \$ 6,000.00 | \$ 6,000.00 |
|-------------|-------------|

Tree Warden, Maintenance

| | | | |
|-----------------------------|----|----------|----------|
| Cr. | | | |
| Appropriation | | \$ | 3,000.00 |
| Dr. | | | |
| Pay Roll | \$ | 2,074.50 | |
| Material and Supplies | | 725.94 | |
| All Other | | 179.48 | |
| | | | |
| Total Payments | \$ | 2,979.92 | |
| Balance to Revenue | | 20.08 | |
| | | | |
| | | \$ | 3,000.00 |
| | | \$ | 3,000.00 |

Hydrant Rentals

| | | | |
|---------------------|------------|----|----------|
| Cr. | | | |
| Appropriation | | \$ | 8,015.00 |
| Dr. | | | |
| Water Dept. | \$8,015.00 | | |
| | | | |
| | | \$ | 8,015.00 |
| | | \$ | 8,015.00 |

Drinking Fountains

| | | | |
|---------------------|----|--------|--------|
| Cr. | | | |
| Appropriation | | \$ | 100.00 |
| Dr. | | | |
| Water Dept. | \$ | 100.00 | |
| | | | |
| | | \$ | 100.00 |
| | | \$ | 100.00 |

Inspector of Buildings

| | | | |
|-------------------------|----|--------|--------|
| Cr. | | | |
| Appropriation | | \$ | 500.00 |
| Dr. | | | |
| A. Russell Barnes | \$ | 500.00 | |
| | | | |
| | | \$ | 500.00 |
| | | \$ | 500.00 |

Inspector of Wires

| | | | |
|---------------------|----|--------|--------|
| Cr. | | | |
| Appropriation | | \$ | 200.00 |
| Dr. | | | |
| Hugh L. Eames | \$ | 200.00 | |
| | | | |
| | | \$ | 200.00 |
| | | \$ | 200.00 |

Sealer of Weights and Measures

| | | | |
|---------------------|--|----|--------|
| Cr. | | | |
| Appropriation | | \$ | 500.00 |

Dr.

| | | | | |
|---------------------|----|--------|----|--------|
| Carl M. Smith | \$ | 500.00 | | |
| | | <hr/> | | |
| | \$ | 500.00 | \$ | 500.00 |

Sealer of Weights and Measures, Expenses

Cr.

| | | | | |
|---------------------|--|--|----|--------|
| Appropriation | | | \$ | 225.00 |
|---------------------|--|--|----|--------|

Dr.

| | | | | |
|--------------------------|----|--------|----|--------|
| Auto Expense | \$ | 162.75 | | |
| Insurance | | 13.60 | | |
| All Other | | 6.40 | | |
| | | <hr/> | | |
| Total Payments | \$ | 182.75 | | |
| Balance to Revenue | | 42.25 | | |
| | | <hr/> | | |
| | \$ | 225.00 | \$ | 225.00 |

Board of Health Salaries

Cr.

| | | | | |
|---------------------|--|--|----|--------|
| Appropriation | | | \$ | 300.00 |
|---------------------|--|--|----|--------|

Dr.

| | | | | |
|---------------------------------------|----|--------|----|--------|
| E. M. Halligan, M. D., Chairman | \$ | 75.00 | | |
| C. F. Atkinson, Secretary | | 150.00 | | |
| George W. S. Ide | | 75.00 | | |
| | | <hr/> | | |
| | \$ | 300.00 | \$ | 300.00 |

Board of Health, Expenses

Cr.

| | | | | |
|---------------------|--|--|----|--------|
| Appropriation | | | \$ | 600.00 |
|---------------------|--|--|----|--------|

Dr.

| | | | | |
|----------------------------------|----|--------|----|--------|
| Printing | \$ | 77.00 | | |
| Milk Inspector's Expense | | 39.94 | | |
| Supplies | | 30.23 | | |
| Telephone | | 53.06 | | |
| Inspection of Slaughtering | | 200.00 | | |
| All Other | | 85.84 | | |
| T. B. Nurse | | 100.00 | | |
| | | <hr/> | | |
| Total Payments | \$ | 586.07 | | |
| Balance to Revenue | | 13.93 | | |
| | | <hr/> | | |
| | \$ | 600.00 | \$ | 600.00 |

Inspector of Plumbing

Cr.

| | | | |
|---------------------|--|----|--------|
| Appropriation | | \$ | 800.00 |
|---------------------|--|----|--------|

Dr.

| | | | |
|---------------------|----|--------|-----------|
| David Taggart | \$ | 800.00 | |
| | | <hr/> | <hr/> |
| | \$ | 800.00 | \$ 800.00 |

Care of Contagious Diseases

Cr.

| | | | |
|---------------------|--|----|----------|
| Appropriation | | \$ | 3,000.00 |
|---------------------|--|----|----------|

Dr.

| | | | |
|--------------------------------|----|----------|--|
| T. B. Hospital Care | \$ | 1,321.60 | |
| Contagious Hospital Care | | 1,599.21 | |
| Supplies | | 19.49 | |
| All Others | | 20.00 | |
| | | <hr/> | |

| | | | |
|--------------------------|----|----------|-------------|
| Total Payments | \$ | 2,960.30 | |
| Balance to Revenue | | 39.70 | |
| | | <hr/> | <hr/> |
| | \$ | 3,000.00 | \$ 3,000.00 |

Garbage Collection

Cr.

| | | | |
|---------------------|--|----|----------|
| Appropriation | | \$ | 2,300.00 |
|---------------------|--|----|----------|

Dr.

| | | | |
|---------------------|----|----------|-------------|
| Jos. Farpelha | \$ | 2,300.00 | |
| | | <hr/> | <hr/> |
| | \$ | 2,300.00 | \$ 2,300.00 |

Inspector of Animals

Cr.

| | | | |
|---------------------|--|----|--------|
| Appropriation | | \$ | 200.00 |
|---------------------|--|----|--------|

Dr.

| | | | |
|------------------------------|----|--------|-----------|
| C. H. Playdon, M. D. V. | \$ | 200.00 | |
| | | <hr/> | <hr/> |
| | \$ | 200.00 | \$ 200.00 |

Inspector of Milk and Food, Salary

Cr.

| | | | |
|---------------------|--|----|--------|
| Appropriation | | \$ | 200.00 |
|---------------------|--|----|--------|

Dr.

| | | | |
|---------------------|----|--------|-----------|
| Carl M. Smith | \$ | 200.00 | |
| | | <hr/> | <hr/> |
| | \$ | 200.00 | \$ 200.00 |

Dental Clinic

Cr.

| | | | |
|---------------------|--|----|--------|
| Appropriation | | \$ | 500.00 |
|---------------------|--|----|--------|

Dr.

| | | | |
|------------------------|----|--------|-----------|
| J. Maxwell Beale | \$ | 500.00 | |
| | | <hr/> | <hr/> |
| | \$ | 500.00 | \$ 500.00 |

Game Warden

Cr.

| | | | |
|---------------------|--|----|--------|
| Appropriation | | \$ | 100.00 |
|---------------------|--|----|--------|

Dr.

| | | | |
|-----------------------|----|--------|-----------|
| James T. Putnam | \$ | 100.00 | |
| | | <hr/> | <hr/> |
| | \$ | 100.00 | \$ 100.00 |

Gas Inspector

Cr.

| | | | |
|---------------------|--|----|--------|
| Appropriation | | \$ | 100.00 |
|---------------------|--|----|--------|

Dr.

| | | | |
|---------------------|----|--------|-----------|
| David Taggart | \$ | 100.00 | |
| | | <hr/> | <hr/> |
| | \$ | 100.00 | \$ 100.00 |

Inspector of Milk

Cr.

| | | | |
|---------------------|--|----|--------|
| Appropriation | | \$ | 200.00 |
|---------------------|--|----|--------|

Dr.

| | | | |
|---------------------|----|--------|-----------|
| Carl M. Smith | \$ | 200.00 | |
| | | <hr/> | <hr/> |
| | \$ | 200.00 | \$ 200.00 |

SEWER DEPARTMENT**Construction and Maintenance**

Cr.

| | | | |
|-------------------------|--|----|-----------|
| Balance from 1930 | | \$ | 3,527.79 |
| Receipts | | | 12,567.31 |

Dr.

| | | |
|------------------------------|----|----------|
| Pay Roll | \$ | 4,308.85 |
| Investigation | | 200.00 |
| Equipment and Supplies | | 1,499.56 |
| Repairs | | 64.19 |
| Auto Expense | | 78.48 |
| Insurance | | 721.44 |
| Adjustment | | 26.64 |

| | | | |
|-----------------------|--------------|--------------|--|
| All Other | 163.20 | | |
| | | | |
| Total Payments | \$ 7,062.36 | | |
| Balance to 1932 | 9,032.74 | | |
| | | | |
| | \$ 16,095.10 | \$ 16,095.10 | |

SEWER DEPARTMENT**House Connections**

Cr.

| | |
|------------------------------------|-----------|
| Balance from 1930 | \$ 200.00 |
| Receipts, Guarantee Deposits | 1,803.77 |

Dr.

| | |
|------------------------------|-------------|
| Pay Roll | \$ 1,147.07 |
| Equipment and Supplies | 470.77 |
| Refunds on Deposits | 237.11 |

| | |
|-----------------------|-------------|
| Total Payments | \$ 1,854.95 |
| Balance to 1932 | 148.82 |

| | |
|-------------|-------------|
| \$ 2,003.77 | \$ 2,003.77 |
|-------------|-------------|

Highway Department

Cr.

| | |
|--|--------------|
| Appropriation | \$ 44,000.00 |
| Transfer from Shackford Rd. Acct. | 318.24 |
| Miscellaneous Credit | 2.16 |

Dr.

| | |
|-------------------------------|-----------|
| Pay Roll | 16,542.75 |
| Telephone | 66.13 |
| Equipment and Repairs | 9,192.43 |
| Material and Supplies | 13,388.54 |
| Truck and Auto Expenses | 2,373.00 |
| Insurance | 1,282.25 |
| Street Signs | 19.00 |
| All Other | 1,356.20 |

| | |
|------------------------------------|--------------|
| Total Payments | \$ 44,220.30 |
| Transfer to Hancock St. Acct. | 100.00 |
| Balance to Revenue | .10 |

| | |
|--------------|--------------|
| \$ 44,320.40 | \$ 44,320.40 |
|--------------|--------------|

Sidewalk Construction

Cr.

| | |
|---------------------|-------------|
| Appropriation | \$ 8,000.00 |
|---------------------|-------------|

Dr.

| | | |
|---------------------------------|-------------|-------------|
| Pay Roll | \$ 4,534.95 | |
| Equipment | 872.20 | |
| Material for Construction | 1,582.07 | |
| All Other | 1,010.78 | |
| | <hr/> | |
| Total Payments | \$ 8,000.00 | \$ 8,000.00 |

Snow and Ice Removal

Cr.

| | | |
|----------------------------------|--|-------------|
| Appropriation | | \$ 5,000.00 |
| Transfer from Reserve Fund | | 700.00 |

Dr.

| | | |
|---------------------------------------|-------------|-------------|
| Pay Roll | \$ 4,159.25 | |
| Sidewalk Plowing | 919.88 | |
| Equipment, Repairs and Supplies | 620.80 | |
| | <hr/> | |
| Total Payments | \$ 5,699.93 | |
| Balance to Revenue | .07 | |
| | <hr/> | |
| | \$ 5,700.00 | \$ 5,700.00 |

Maintenance Storm Drains

Cr.

| | | |
|---------------------|--|-------------|
| Appropriation | | \$ 3,000.00 |
|---------------------|--|-------------|

Dr.

| | | |
|-----------------------------|-------------|-------------|
| Pay Roll | \$ 2,972.50 | |
| Material and Supplies | 18.73 | |
| | <hr/> | |
| Total Payments | 2,991.23 | |
| Balance to Revenue | 8.77 | |
| | <hr/> | |
| | \$ 3,000.00 | \$ 3,000.00 |

Drainage System

Cr.

| | | |
|-------------------------|--|-----------|
| Balance from 1930 | | \$ 156.19 |
| Appropriation | | 14,000.00 |

Dr.

| | | |
|--------------------------|--------------|--------------|
| Pay Roll | \$ 6,168.36 | |
| Tools and Supplies | 2,098.03 | |
| Pipe | 4,883.36 | |
| | <hr/> | |
| Total Payments | \$ 13,149.75 | |
| Balance to 1932 | 1,006.44 | |
| | <hr/> | |
| | \$ 14,156.19 | \$ 14,156.19 |

Salem St. Construction

Cr.

| | | | |
|--|----|----------|--|
| Appropriation | \$ | 4,000.00 | |
| Received from Comm. of Massachusetts | | 4,000.00 | |
| Received from County of Middlesex | | 4,000.00 | |

Dr.

| | | | |
|----------------------|----|-----------|--------------|
| Pay Roll | \$ | 5,067.48 | |
| Road Material | | 5,355.10 | |
| All Other | | 1,577.42 | |
| Total Payments | \$ | 12,000.00 | \$ 12,000.00 |

Care of Dumps

Cr.

| | | | |
|---------------------|----|--------|--|
| Appropriation | \$ | 600.00 | |
|---------------------|----|--------|--|

Dr.

| | | | |
|--------------------------|----|--------|-----------|
| Pay Roll | \$ | 593.14 | |
| Balance to Revenue | | 6.86 | |
| Total | \$ | 600.00 | \$ 600.00 |

Street Lighting

Cr.

| | | | |
|---------------------|----|-----------|--|
| Appropriation | \$ | 13,500.00 | |
|---------------------|----|-----------|--|

Dr.

| | | | |
|----------------------------|----|-----------|--------------|
| Municipal Light Dept. | \$ | 13,500.00 | |
| | \$ | 13,500.00 | \$ 13,500.00 |

Board of Public Welfare**Clerical**

Cr.

| | | | |
|---------------------|----|--------|--|
| Appropriation | \$ | 352.00 | |
|---------------------|----|--------|--|

Dr.

| | | | |
|--------------------|----|--------|-----------|
| Leon G. Bent | \$ | 352.00 | |
| | \$ | 352.00 | \$ 352.00 |

Board of Public Welfare**Visitor**

Cr.

| | | | |
|---------------------|----|--------|--|
| Appropriation | \$ | 600.00 | |
|---------------------|----|--------|--|

Dr.

| | | | |
|----------------------|----|--------|-----------|
| Helen A. Brown | \$ | 600.00 | |
| | \$ | 600.00 | \$ 600.00 |

**Board of Public Welfare
Old Age Visitor**

| | |
|------------------------|------------------------|
| Cr. | |
| Appropriation | \$ 200.00 |
| Dr. | |
| Annie E. Patrick | \$ 200.00 |
| | <hr/> |
| | \$ 200.00 \$ 200.00 |

**Board of Public Welfare
Aid, Board and Care**

| | |
|---|------------------------------|
| Cr. | |
| Appropriation | \$ 20,000.00 |
| Receipts, Hospital Fund | 1,003.13 |
| Dr. | |
| Cash and Board | \$ 8,697.02 |
| Rent | 1,114.00 |
| Fuel and Groceries | 4,297.75 |
| Hospital and Medical | 1,354.51 |
| Comm. of Mass., Other Cities and Towns | 3,636.52 |
| All Other | 1,003.83 |
| | <hr/> |
| Total Payments | \$ 20,103.63 |
| Balance to Revenue | 899.50 |
| | <hr/> |
| Total Payments | \$ 21,003.13 \$ 21,003.13 |

Mothers' Aid

| | |
|----------------------------------|----------------------------|
| Cr. | |
| Appropriation | \$ 4,000.00 |
| Transfer from Reserve Fund | 800.00 |
| Dr. | |
| Cash | \$ 3,659.00 |
| Fuel and Groceries | 591.16 |
| Medical | 201.85 |
| Rent | 360.00 |
| | <hr/> |
| Total Payments | \$ 4,812.01 |
| Overdraft to 1932 | 12.01 |
| | <hr/> |
| | \$ 4,812.01 \$ 4,812.01 |

Temporary Aid

| | |
|----------------------------------|-------------|
| Cr. | |
| Appropriation | \$ 3,250.00 |
| Transfer from Reserve Fund | 800.00 |

Dr.

| | | |
|--------------------------|-------------|-------------|
| Cash | \$ 1,961.50 | |
| Board | 23.50 | |
| Rent | 467.00 | |
| Fuel and Groceries | 1,345.75 | |
| Medical | 207.45 | |
| All Other | 40.68 | |
| | <hr/> | |
| Total Payments | \$ 4,045.88 | |
| Balance to Revenue | 4.12 | |
| | <hr/> | |
| | \$ 4,050.00 | \$ 4,050.00 |

Old Age Assistance

Cr.

| | |
|----------------------------------|-------------|
| Appropriation | \$ 4,000.00 |
| Transfer from Reserve Fund | 300.00 |

Dr.

| | | |
|--------------------------|-------------|-------------|
| Cash | \$ 4,133.00 | |
| Fuel | 7.13 | |
| Medical | 2.00 | |
| Burial expenses | 92.00 | |
| Miscellaneous | 32.49 | |
| | <hr/> | |
| Total Payments | \$ 4,266.62 | |
| Balance to Revenue | 33.38 | |
| | <hr/> | |
| | \$ 4,300.00 | \$ 4,300.00 |

Special Fund Acct.

Cr.

| | |
|----------------|-------------|
| Receipts | \$ 1,117.12 |
|----------------|-------------|

Dr.

| | | |
|-----------------------|-------------|-------------|
| Cash | \$ 478.00 | |
| Food | 13.25 | |
| Fuel | 41.33 | |
| Labor | 14.60 | |
| | <hr/> | |
| Total Payments | \$ 547.18 | |
| Balance to 1932 | 569.94 | |
| | <hr/> | |
| | \$ 1,117.12 | \$ 1,117.12 |

State Aid

Cr.

| | |
|---------------------|-----------|
| Appropriation | \$ 200.00 |
|---------------------|-----------|

Dr.

Cash Payments:

| | | | |
|--------------------------------|----|--------|--------|
| Acct. Civil War | \$ | 72.00 | |
| Acct. Philippine Service | | 80.00 | |
| World War | | 30.00 | |
| | | | |
| Total Payments | \$ | 182.00 | |
| Balance to Revenue | | 18.00 | |
| | | | |
| | | \$ | 200.00 |
| | | \$ | 200.00 |

Military Aid

Cr.

| | | | |
|---------------------|--|----|--------|
| Appropriation | | \$ | 100.00 |
|---------------------|--|----|--------|

Dr.

| | | | |
|--------------------------|--------|----|--------|
| Balance to Revenue | 100.00 | | |
| | | | |
| | | \$ | 100.00 |
| | | \$ | 100.00 |

Soldiers' Relief

Cr.

| | | | |
|---------------------|--|----|-----------|
| Appropriation | | \$ | 11,000.00 |
|---------------------|--|----|-----------|

Dr.

Cash Payments:

| | | | |
|--|----|-----------|-----------|
| Acct. Civil War | \$ | 416.00 | |
| Acct. Spanish War | | 508.00 | |
| Acct. Philippine Service | | 1,247.00 | |
| Acct. World War | | 7,591.50 | |
| Rent, Acct. World War | | 259.00 | |
| Fuel, Groceries, Acct. World War | | 590.94 | |
| Medical and Hospital, Acct. World War | | 48.00 | |
| Other Cities and Towns | | 124.25 | |
| All Other | | 11.00 | |
| | | | |
| Total Payments | \$ | 10,795.69 | |
| Balance to Revenue | | 204.31 | |
| | | | |
| | | \$ | 11,000.00 |
| | | \$ | 11,000.00 |

SCHOOL DEPARTMENT

General Salaries

Cr.

| | | |
|---------------------|--|--------------|
| Appropriation | | \$188,500.00 |
|---------------------|--|--------------|

Dr.

| | |
|---|--------------|
| Pay Roll, Supt. Tea. and Clerical | \$167,417.69 |
|---|--------------|

| | | |
|--------------------------|--------------|--------------|
| Medical Inspection | 1,000.00 | |
| School Nurses | 3,166.67 | |
| Attendance Officer | 500.00 | |
| Janitors | 16,270.00 | |
| | <hr/> | |
| Total Payments | \$188,354.36 | |
| Balance to Revenue | 145.64 | |
| | <hr/> | |
| | \$188,500.00 | \$188,500.00 |

General Maintenance

| | | |
|------------------------------|--------------|--------------|
| | Cr. | |
| Appropriation | | \$ 56,450.00 |
| | Dr. | |
| Transportation | \$ 6,983.43 | |
| Books | 7,029.53 | |
| Supplies for Pupils | 9,231.74 | |
| Apparatus for Teaching | 564.88 | |
| Administrative Expense | 2,960.83 | |
| Fuel | 6,252.86 | |
| Gas and Electricity | 2,391.61 | |
| Water and Sewer | 1,623.80 | |
| Janitor Supplies | 2,269.52 | |
| Repairs | 15,469.04 | |
| Ashes and Trucking | 485.39 | |
| | <hr/> | |
| Total Payments | \$ 55,262.63 | |
| Balance to Revenue | 1,187.37 | |
| | <hr/> | |
| | \$ 56,450.00 | \$ 56,450.00 |

Agricultural Department, Maintenance

| | | |
|--------------------------|-----------|-----------|
| | Cr. | |
| Appropriation | | \$ 300.00 |
| | Dr. | |
| Books, etc. | \$ 170.18 | |
| Balance to Revenue | 130.82 | |
| | <hr/> | |
| | \$ 300.00 | \$ 300.00 |

Agricultural Department, Salaries

| | | |
|---------------------|-----|-------------|
| | Cr. | |
| Appropriation | | \$ 3,000.00 |

Dr.

| | | |
|--------------------------|-------------|-------------|
| Pay Roll | \$ 2,941.59 | |
| Balance to Revenue | 58.41 | |
| | <hr/> | |
| | \$ 3,000.00 | \$ 3,000.00 |

Vocational Tuition

Cr.

| | | |
|---------------------|--|-------------|
| Appropriation | | \$ 1,200.00 |
|---------------------|--|-------------|

Dr.

| | |
|--------------------------|-----------|
| City of Boston | \$ 348.95 |
| City of Somerville | 669.07 |
| Town of Wakefield | 81.00 |
| City of Lynn | 15.00 |
| City of Everett | 41.45 |

| | |
|--------------------------|-------------|
| Total Payments | \$ 1,155.47 |
| Balance to Revenue | 44.53 |

| | |
|-------------|-------------|
| \$ 1,200.00 | \$ 1,200.00 |
|-------------|-------------|

Public Library Maintenance

Cr.

| | | |
|---------------------|--|-------------|
| Appropriation | | \$ 3,200.00 |
|---------------------|--|-------------|

Dr.

| | |
|--------------------------------------|-------------|
| Books, Periodicals and Binding | \$ 2,253.33 |
| Printing and Stationery | 92.00 |
| Fuel, Light, Water and Sewer | 286.04 |
| Repairs and Furnishings | 380.99 |
| Telephone | 48.66 |
| All Other Expenses | 60.67 |

| | |
|--------------------------|-------------|
| Total Payments | \$ 3,121.69 |
| Balance to Revenue | 78.31 |

| | |
|-------------|-------------|
| \$ 3,200.00 | \$ 3,200.00 |
|-------------|-------------|

Public Library, Salaries

Cr.

| | | |
|---------------------|--|-------------|
| Appropriation | | \$ 4,800.00 |
|---------------------|--|-------------|

Dr.

| | |
|--|-------------|
| Bertha L. Brown, Librarian | \$ 1,500.00 |
| Grace J. Abbott, Asst. Librarian | 1,175.01 |
| Other Assistants | 1,343.66 |
| W. H. Killam, Janitor | 780.00 |

| | |
|----------------------|-------------|
| Total Payments | \$ 4,798.67 |
|----------------------|-------------|

| | | |
|--------------------------|-------------|-------------|
| Balance to Revenue | 1.33 | |
| | <hr/> | <hr/> |
| | \$ 4,800.00 | \$ 4,800.00 |

Park Department, Maintenance

Cr.

| | | |
|---------------------|--|-------------|
| Appropriation | | \$ 6,000.00 |
|---------------------|--|-------------|

Dr.

| | |
|---------------------|-------------|
| Pay Roll | \$ 2,302.15 |
| Telephone | 7.81 |
| Repairs | 76.48 |
| Supplies | 499.64 |
| Insurance | 65.82 |
| Bleachers | 1,259.00 |
| Tennis Courts | 1,000.00 |
| All Other | 788.10 |

| | |
|--------------------------|-------------|
| Total Payments | \$ 5,999.00 |
| Balance to Revenue | 1.00 |

| | |
|-------------|-------------|
| \$ 6,000.00 | \$ 6,000.00 |
|-------------|-------------|

CEMETERY DEPARTMENT**Laurel Hill Cemetery**

Cr.

| | |
|---|-------------|
| Appropriation from Tax Levy | \$ 8,900.00 |
| Appropriation from Cemetery Reserve | 2,500.00 |
| Receipt from Cemetery Bequest Fund | 1,811.84 |

Dr.

| | |
|-----------------------------|-------------|
| Pay Roll | \$ 9,967.21 |
| Telephone | 91.39 |
| Material and Supplies | 821.59 |
| Equipment and Repairs | 1,815.56 |
| Auto Expense | 216.50 |
| Insurance | 189.62 |
| All Other | 105.31 |

| | |
|--------------------------|--------------|
| Total Payments | \$ 13,207.18 |
| Balance to Revenue | 4.66 |

| | |
|--------------|--------------|
| \$ 13,211.84 | \$ 13,211.84 |
|--------------|--------------|

Forest Glen Cemetery

Cr.

| | |
|---------------------|-------------|
| Appropriation | \$ 1,250.00 |
|---------------------|-------------|

Dr.

| | | |
|---------------------------|-------------|-------------|
| Pay Roll | \$ 368.80 | |
| Planting Shrubs | 392.90 | |
| Drain | 100.00 | |
| Seal Coat on Avenue | 81.45 | |
| Tablets | 170.00 | |
| All Other | 132.95 | |
| | <hr/> | |
| Total Payments | \$ 1,246.10 | |
| Balance to Revenue | 3.90 | |
| | <hr/> | |
| | \$ 1,250.00 | \$ 1,250.00 |

Care of Soldiers' Graves

Cr.

| | |
|---------------------|-----------|
| Appropriation | \$ 600.00 |
|---------------------|-----------|

Dr.

| | | |
|----------------|-----------|-----------|
| Pay Roll | \$ 482.60 | |
| Material | 117.40 | |
| | <hr/> | |
| | \$ 600.00 | \$ 600.00 |

WATER DEPARTMENT

Cr.

| | |
|-------------------------|-------------|
| Balance from 1930 | \$ 1,200.26 |
| Receipts, 1931 | 58,052.04 |

Dr.

| | |
|------------------------------------|--------------|
| Pay Roll | \$ 18,545.17 |
| Clerical | 1,007.00 |
| Bonds | 8,000.00 |
| Interest on Bonds | 3,792.50 |
| Telephones | 207.40 |
| Insurance | 1,037.78 |
| Office Supplies and Printing | 519.69 |
| Fuel | 2,320.62 |
| Power and Light | 2,973.97 |
| Supplies | 7,614.70 |
| Tools and Equipment | 999.43 |
| Repairs | 512.70 |
| Auto Equipment and Repairs | 1,248.03 |
| Investigation | 500.00 |
| All Other | 1,915.77 |
| | <hr/> |
| Total Payments | \$ 51,244.81 |

| | | |
|-----------------------|--------------|--------------|
| Balance to 1932 | 8,097.49 | |
| | <hr/> | |
| | \$ 59,342.30 | \$ 59,342.30 |

NEW WATER SUPPLY

| | | |
|-----------------------|--------------|--------------|
| | Cr. | |
| Appropriation | | \$ 34,000.00 |
| | Dr. | |
| Pay Roll | \$ 3,649.89 | |
| Engineer | 4,500.00 | |
| Contractors | 11,937.10 | |
| All Other | 10,009.10 | |
| | <hr/> | |
| Total | \$ 30,146.09 | |
| Balance to 1932 | \$ 3,853.91 | |
| | <hr/> | |
| | \$ 34,000.00 | \$ 34,000.00 |

| | | |
|-----------------------|--------------|--------------|
| | Cr. | |
| Appropriation | | \$ 16,000.00 |
| Credit | | 43.45 |
| Pay Roll | \$ 5,435.51 | |
| Pipe | 6,573.11 | |
| All Other | 3,652.36 | |
| | <hr/> | |
| Total | \$ 15,660.93 | |
| Balance to 1932 | \$ 392.47 | |
| | <hr/> | |
| | \$ 16,043.45 | \$ 16,043.45 |

WATER DEPT. NEW STAND PIPE

| | | |
|------------------------------------|-------------|-------------|
| | Cr. | |
| Balance from 1930 | | \$ 5,375.50 |
| | Dr. | |
| Pay Roll | \$ 49.94 | |
| Pittsburgh DeMoin's Steel Co. | 5,010.00 | |
| Metcalf & Eddy | 35.20 | |
| J. McDonald Construction Co. | 104.63 | |
| Harlan P. Kelsey, Inc. | 171.00 | |
| Fred Frotten | 4.00 | |
| | <hr/> | |
| Total payments | 5,374.77 | |
| Balance to 1932 | .73 | |
| | <hr/> | |
| | \$ 5,375.50 | \$ 5,375.50 |

MUNICIPAL LIGHT DEPARTMENT

Cr.

| | |
|----------------------------------|-------------|
| Balance from 1930 | \$ 1,451.40 |
| Receipts, Meter Rates, etc. | 319,715.49 |
| Refund | 18.75 |

Dr.

| | |
|--|--------------|
| Pay Roll | \$ 95,429.05 |
| Bond and Note Payments | 13,000.00 |
| Interest on Bonds and Notes | 3,675.00 |
| Office and Salesroom Expenses | 4,729.60 |
| Current purchased | 78,230.26 |
| Maintenance and Operation of lines | 52,772.11 |
| Insurance | 5,154.61 |
| Coal | 823.74 |
| Rent | 1,916.69 |
| Additions to plant | 27,937.36 |
| All other payments | 21,343.56 |

 \$305,011.98

| | |
|-----------------------------|-----------|
| Payments to Treasurer | 13,975.81 |
|-----------------------------|-----------|

| | |
|----------------------|--------------|
| Total Payments | \$318,987.79 |
|----------------------|--------------|

| | |
|-----------------------|----------|
| Balance to 1932 | 2,197.85 |
|-----------------------|----------|

 \$321,185.64 \$321,185.64

* For list of unpaid bills see Municipal Light Dept., report.

Extension, Vote of 1930

Cr.

| | |
|-------------------------|-------------|
| Balance from 1930 | \$ 5,109.12 |
|-------------------------|-------------|

Dr.

| | |
|--------------------------------------|-----------|
| Pay Roll and Material, Reading | \$ 746.15 |
| Lynnfield Centre | 1,144.19 |
| North Reading | 1,068.41 |
| Bond Issue Expense | 99.00 |

| | |
|----------------------|-------------|
| Total Payments | \$ 3,057.75 |
|----------------------|-------------|

| | |
|-----------------------|----------|
| Balance to 1932 | 2,051.37 |
|-----------------------|----------|

 \$ 5,109.12 \$ 5,109.12
Extension, Vote of 1931

Cr.

| | |
|---|---------------|
| Bond Issue | \$ 40,000.000 |
| Transfer from Maintenance and Construction Account | 2,338.97 |

Dr.

| | | |
|-------------------------------------|--------------|--------------|
| Underground Conduits Contract | \$ 19,350.32 | |
| Conductors | 14,548.78 | |
| Street Lighting Equipment | 8,439.87 | |
| | <hr/> | <hr/> |
| Total Payments | \$ 42,338.97 | \$ 42,338.97 |

MEMORIAL DAY OBSERVANCE

Cr.

| | | |
|---------------------|--|-----------|
| Appropriation | | \$ 600.00 |
|---------------------|--|-----------|

Dr.

| | | |
|----------------------|-----------|-----------|
| Band Hire | \$ 165.00 | |
| Flowers | 252.50 | |
| Printing | 8.51 | |
| All Other | 173.99 | |
| | <hr/> | <hr/> |
| Total Payments | \$ 600.00 | \$ 600.00 |

Child Welfare Work

Cr.

| | | |
|---------------------|--|-----------|
| Appropriation | | \$ 400.00 |
|---------------------|--|-----------|

Dr.

| | | |
|--------------------------------|-----------|-----------|
| Mrs. Bertha Benjamin | \$ 65.00 | |
| Chas. R. Henderson, M. D. | 200.00 | |
| Ethel E. Maccumber | 112.50 | |
| Fairbanks Morse Co. | 22.50 | |
| | <hr/> | <hr/> |
| | \$ 400.00 | \$ 400.00 |

Middlesex County, Aid to Agriculture

| | | |
|---------------------|--|----------|
| Appropriation | | \$ 75.00 |
|---------------------|--|----------|

Dr.

| | | |
|--------------------------------------|----------|----------|
| Agricultural Extension Service | 60.00 | |
| Balance to Revenue | 15.00 | |
| | <hr/> | <hr/> |
| | \$ 75.00 | \$ 75.00 |

Planning Board Expenses

Cr.

| | | |
|---------------------|--|-----------|
| Appropriation | | \$ 500.00 |
|---------------------|--|-----------|

Dr.

| | | |
|-------------------------------------|-----------|-----------|
| Mass. Fed. of Planning Boards | \$ 15.00 | |
| Davis & Abbott | 76.38 | |
| All Other | 11.08 | |
| | <hr/> | <hr/> |
| Total Payments | \$ 102.46 | |
| Balance to Revenue | 397.54 | |
| | <hr/> | <hr/> |
| | \$ 500.00 | \$ 500.00 |

SMITH-HUGHES FUND

| | | | |
|---------------------------------|----|--------|-----------|
| Cr. | | | |
| Balance from 1930 | | \$ | 185.70 |
| Receipts 1931 | | | 175.96 |
| Dr. | | | |
| Pay Roll Agr. School Dept. | \$ | 185.70 | |
| Balance to 1932 | | 175.96 | |
| | | <hr/> | <hr/> |
| | \$ | 361.66 | \$ 361.66 |

GEORGE REED FUND

| | | | |
|---------------------------------|----|-------|----------|
| Cr. | | | |
| Balance from 1930 | | \$ | 20.17 |
| Receipts 1931 | | | 38.23 |
| Dr. | | | |
| Pay Roll Agr. School Dept. | \$ | 20.17 | |
| Balance to 1932 | | 38.23 | |
| | | <hr/> | <hr/> |
| | \$ | 58.40 | \$ 58.40 |

DRAINAGE SYSTEM SURVEY

| | | | |
|-------------------------|----|--------|-----------|
| Cr. | | | |
| Balance from 1930 | | \$ | 312.51 |
| Dr. | | | |
| Davis & Abbott | \$ | 35.00 | |
| Pay Rolls | \$ | 205.01 | |
| Balance to 1932 | | 72.50 | |
| | | <hr/> | <hr/> |
| | \$ | 312.51 | \$ 312.51 |

PUBLIC PLAYGROUND, BIRCH MEADOW

| | | | |
|-------------------------|----|----------|-------------|
| Cr. | | | |
| Balance from 1930 | | \$ | 377.89 |
| Appropriations | | | 2,000.00 |
| Dr. | | | |
| Pay Rolls | \$ | 690.18 | |
| Trucking | | 218.75 | |
| Surveying | | 33.75 | |
| Filling | | 1,143.00 | |
| Recording Deeds | | 76.25 | |
| Supplies | | 204.26 | |
| All Other | | 11.70 | |
| | | <hr/> | <hr/> |
| Total Payments | \$ | 2,377.89 | \$ 2,377.89 |

BUILDING LAWS EXPENSES

| | | | |
|-------------------------|-----|--------|--------|
| | Cr. | | |
| Balance from 1930 | | \$ | 366.45 |
| | Dr. | | |
| Printing | \$ | 359.00 | |
| Revenue | | 7.45 | |
| | | <hr/> | <hr/> |
| | | \$ | 366.45 |
| | | \$ | 366.45 |

ATHLETIC FIELD SURVEY

| | | | |
|-------------------------|-----|--------|--------|
| | Cr. | | |
| Balance from 1930 | | \$ | 492.00 |
| Appropriation | | | 500.00 |
| | Dr. | | |
| Louis S. Harris | \$ | 250.00 | |
| Davis & Abbott | | 93.31 | |
| Pay Roll | | 24.84 | |
| Balance to 1932 | | 623.85 | |
| | | <hr/> | <hr/> |
| | | \$ | 992.00 |
| | | \$ | 992.00 |

TOWN FOREST

| | | | |
|--------------------------|-----|--------|--------|
| | Cr. | | |
| Appropriation | | \$ | 700.00 |
| | Dr. | | |
| Pay Roll | \$ | 682.32 | |
| All Others | | 16.82 | |
| | | <hr/> | <hr/> |
| Total Payments | \$ | 699.14 | |
| Balance to Revenue | | .86 | |
| | | <hr/> | <hr/> |
| | | \$ | 700.00 |
| | | \$ | 700.00 |

POLICE BUILDING

| | | | |
|--------------------------------------|-----|----------|----------|
| | Cr. | | |
| Balance from 1930 | | \$ | 8,816.89 |
| Refunds | | | 232.57 |
| | Dr. | | |
| Central Eng. & Const. Co. | \$ | 7,721.79 | |
| Pay Roll Board of Public Works | | 132.87 | |
| Architect's Fees | | 270.65 | |
| Supplies and Furnishings | | 455.77 | |
| Insurance | | 2.08 | |
| Grading | | 450.00 | |
| All Others | | 13.69 | |
| | | <hr/> | <hr/> |
| Total Payments | | 9,046.85 | |

| | | | |
|--------------------|------|-------------|-------------|
| Balance 1932 | 2.61 | | |
| | | \$ 9,049.46 | \$ 9,049.46 |

FIRE ALARM BOX—SCHOOL AND DUDLEY STS.**Article 39**

Cr.

| | | | |
|---------------------|--|----|--------|
| Appropriation | | \$ | 350.00 |
|---------------------|--|----|--------|

Dr.

| | | | |
|------------------------------|----|--------|--|
| Pay Roll | \$ | 30.00 | |
| Materials and Supplies | | 233.86 | |

| | | | |
|--------------------------|----|--------|--|
| Total Payments | \$ | 263.86 | |
| Balance to Revenue | | 86.14 | |

| | | | |
|--|----|--------|-----------|
| | \$ | 350.00 | \$ 350.00 |
|--|----|--------|-----------|

REIMBURSEMENT—A. E. MERRILL**Article 14**

Cr.

| | | | |
|---------------------|--|----|--------|
| Appropriation | | \$ | 150.00 |
|---------------------|--|----|--------|

Dr.

| | | | |
|---------------------------|----|--------|--|
| George F. Dow | \$ | 20.00 | |
| Winchester Hospital | | 5.00 | |
| A. E. Merrill | | 108.00 | |

| | | | |
|--------------------------|----|--------|--|
| Total Payments | \$ | 133.00 | |
| Balance to Revenue | | 17.00 | |

| | | | |
|--|----|--------|-----------|
| | \$ | 150.00 | \$ 150.00 |
|--|----|--------|-----------|

DAMAGE SUIT—WM. H. KILLAM**Article 15**

Cr.

| | | | |
|---------------------|--|----|----------|
| Appropriation | | \$ | 1,250.00 |
|---------------------|--|----|----------|

Dr.

| | | | |
|-------------------------|----|----------|--|
| William H. Killam | \$ | 1,250.00 | |
|-------------------------|----|----------|--|

| | | | |
|--|----|----------|-------------|
| | \$ | 1,250.00 | \$ 1,250.00 |
|--|----|----------|-------------|

LAND PURCHASE—JUNIOR HIGH SCHOOL**Article 18**

Cr.

| | | | |
|---------------------|--|----|----------|
| Appropriation | | \$ | 3,400.00 |
|---------------------|--|----|----------|

Dr.

| | | | |
|------------------------|----|----------|--|
| B. & M. R. R. | \$ | 1,500.00 | |
| Joseph D. Knight | \$ | 1,900.00 | |

| | | | |
|----------------------|----|----------|-------------|
| Total Payments | \$ | 3,400.00 | \$ 3,400.00 |
|----------------------|----|----------|-------------|

LAND DAMAGE—A. D. GORDON, PROPERTY**Article 27**

| | | | |
|--------------------------|-----|--------|-----------|
| | Dr. | | |
| Appropriation | | \$ | 380.00 |
| | Dr. | | |
| A. D. Gordon | \$ | 374.06 | |
| Balance to Revenue | | 5.94 | |
| | | <hr/> | <hr/> |
| | \$ | 380.00 | \$ 380.00 |

LAND DAMAGES—Shackford Road**Article 28**

| | | | |
|----------------------|-----|--------|-----------|
| | Cr. | | |
| Appropriation | | \$ | 400.00 |
| | Dr. | | |
| Pay Roll | \$ | 329.46 | |
| Material | | 70.54 | |
| | | <hr/> | <hr/> |
| Total Payments | \$ | 400.00 | \$ 400.00 |

FOREST FIRE PUMP**Article 37**

| | | | |
|----------------------------------|-----|--------|-----------|
| | Cr. | | |
| Appropriation | | \$ | 800.00 |
| | Dr. | | |
| American Fire Equipment Co. | \$ | 740.00 | |
| Pacific Marine Supply Co. | | 18.69 | |
| | | <hr/> | <hr/> |
| Total Payments | \$ | 758.69 | |
| Balance to Revenue | | 41.31 | |
| | | <hr/> | <hr/> |
| | \$ | 800.00 | \$ 800.00 |

TRAFFIC SIGNS**Article 10**

| | | | |
|----------------------------|-----|--------|-----------|
| | Cr. | | |
| Appropriation | | \$ | 500.00 |
| | Dr. | | |
| Pay Roll | \$ | 28.08 | |
| American Gas Acc. Co. | | 468.98 | |
| All other | | 2.43 | |
| | | <hr/> | <hr/> |
| Total Payments | \$ | 499.49 | |
| Balance to Revenue | | .51 | |
| | | <hr/> | <hr/> |
| | \$ | 500.00 | \$ 500.00 |

APPROPRIATION—H. L. ROBERTSON**Article 11****Cr.**

| | | | |
|---------------------|--|----|-------|
| Appropriation | | \$ | 28.00 |
|---------------------|--|----|-------|

Dr.

| | | | |
|----------------------------|----|-------|--|
| E. D. Richmond, M. D. | \$ | 28.00 | |
|----------------------------|----|-------|--|

| | | | | |
|--|----|-------|----|-------|
| | \$ | 28.00 | \$ | 28.00 |
|--|----|-------|----|-------|

UNDERGROUND WIRE INSTALLATION**Fire and Police Signals****Cr.**

| | | | |
|---------------------|--|----|----------|
| Appropriation | | \$ | 2,000.00 |
|---------------------|--|----|----------|

Dr.

| | | | |
|----------------|----|--------|--|
| Pay Roll | \$ | 182.30 | |
|----------------|----|--------|--|

| | | | |
|-----------------------------|--|----------|--|
| Material and Supplies | | 1,817.70 | |
|-----------------------------|--|----------|--|

| | | | | |
|--|----|----------|----|----------|
| | \$ | 2,000.00 | \$ | 2,000.00 |
|--|----|----------|----|----------|

LAND PURCHASE—BIRCH MEADOW**Cr.**

| | | | |
|-------------------------|--|----|--------|
| Balance from 1930 | | \$ | 100.00 |
|-------------------------|--|----|--------|

Dr.

| | | | |
|-------------------|----|------|--|
| Taxes, 1930 | \$ | 3.13 | |
|-------------------|----|------|--|

| | | | |
|-----------------------|--|-------|--|
| Balance to 1932 | | 96.87 | |
|-----------------------|--|-------|--|

| | | | | |
|--|----|--------|----|--------|
| | \$ | 100.00 | \$ | 100.00 |
|--|----|--------|----|--------|

LAND DEVELOPMENT—JUNIOR HIGH SCHOOL**Cr.**

| | | | |
|---------------------|--|----|----------|
| Appropriation | | \$ | 5,000.00 |
|---------------------|--|----|----------|

| | | | |
|--|--|--------|--|
| Trans. from General School Maintenance | | 255.76 | |
|--|--|--------|--|

Dr.

| | | | |
|----------------|----|------|--|
| Pay Roll | \$ | 7.56 | |
|----------------|----|------|--|

| | | | |
|-----------------|--|--------|--|
| Surveying | | 331.50 | |
|-----------------|--|--------|--|

| | | | |
|-----------------------|--|--------|--|
| Recording Deeds | | 108.00 | |
|-----------------------|--|--------|--|

| | | | |
|------------------------|--|----------|--|
| Contract Grading | | 4,383.70 | |
|------------------------|--|----------|--|

| | | | |
|------------------|--|--------|--|
| Consultant | | 425.00 | |
|------------------|--|--------|--|

| | | | | |
|--|----|----------|----|----------|
| | \$ | 5,255.76 | \$ | 5,255.76 |
|--|----|----------|----|----------|

Rent, Post 62, American Legion**Cr.**

| | | | |
|---------------------|--|----|----------|
| Appropriation | | \$ | 1,000.00 |
|---------------------|--|----|----------|

Dr.

| | | | |
|-------------------------------------|----|----------|--|
| Reading Veterans' Association | \$ | 1,000.00 | |
|-------------------------------------|----|----------|--|

| | | | | |
|--|----|----------|----|----------|
| | \$ | 1,000.00 | \$ | 1,000.00 |
|--|----|----------|----|----------|

ACCOUNTING MUNICIPAL LOANS**Temporary Loans, Anticipation of Revenue**

| | |
|--------------------------------|--------------|
| Outstanding Jan. 1, 1931 | \$200,000.00 |
|--------------------------------|--------------|

Notes Issued in 1931

| Month | By whom purchased | Rate | Amount |
|-------|----------------------------|------|--------------|
| Mar. | Faxon, Gade & Company | 2.06 | 75,000.00 |
| Aug. | Second Nat'l. Bank, Boston | 1.80 | 100,000.00 |
| Nov. | Second Nat'l. Bank, Boston | 3.50 | 150,000.00 |
| | | | 325,000.00 |
| | | | <hr/> |
| | | | \$525,000.00 |

Notes paid in 1931

| | | |
|-----------|--------------|--------------|
| Nov. | \$200,000.00 | |
| Dec. | 75,000.00 | \$275,000.00 |
| | <hr/> | |

| | |
|---------------------------------|--------------|
| Outstanding Dec. 31, 1931 | \$250,000.00 |
|---------------------------------|--------------|

WATER DEPARTMENT LOANS

| | |
|---------------------------------|--------------|
| Outstanding Jan. 1, 1931 | \$ 75,000.00 |
| Bonds issued in 1931 | 50,000.00 |
| Paid in 1931 | \$ 8,000.00 |
| Outstanding Dec. 31, 1931 | \$117,000.00 |
| | <hr/> |
| | \$125,000.00 |
| | \$125,000.00 |

MUNICIPAL LIGHT DEPARTMENT LOANS

| | |
|---------------------------------|--------------|
| Outstanding Jan. 1, 1931 | \$ 69,500.00 |
| Bonds issued in 1931 | 40,000.00 |
| Paid in 1931 | \$ 13,000.00 |
| Outstanding Dec. 31, 1931 | 96,500.00 |
| | <hr/> |
| | \$109,500.00 |
| | \$109,500.00 |

SEWER DEPARTMENT LOANS

| | |
|---------------------------------|--------------|
| Outstanding Jan 1, 1931 | \$134,000.00 |
| Paid in 1931 | \$ 9,000.00 |
| Outstanding Dec. 31, 1931 | 125,000.00 |
| | <hr/> |
| | \$134,000.00 |
| | \$134,000.00 |

MUNICIPAL BUILDING LOANS

| | | |
|---------------------------------|--------------|--------------|
| Outstanding Jan. 1, 1931 | \$ 14,000.00 | |
| Paid in 1931 | | \$ 2,000.00 |
| Outstanding Dec. 31, 1931 | | 12,000.00 |
| | <hr/> | <hr/> |
| | \$ 14,000.00 | \$ 14,000.00 |

MUNICIPAL AND LIBRARY BUILDING GROUNDS

| | | |
|---------------------------------|-------------|-------------|
| Outstanding Jan. 1, 1931 | \$ 1,000.00 | |
| Paid in 1931 | | \$ 500.00 |
| Outstanding Dec. 31, 1931 | | 500.00 |
| | <hr/> | <hr/> |
| | \$ 1,000.00 | \$ 1,000.00 |

BROWN ESTATE LOANS

| | | |
|---------------------------------|-------------|-------------|
| Outstanding Jan 1, 1931 | \$ 1,000.00 | |
| Paid in 1931 | | \$ 500.00 |
| Outstanding Dec. 31, 1931 | | 500.00 |
| | <hr/> | <hr/> |
| | \$ 1,000.00 | \$ 1,000.00 |

SCHOOL BUILDING LOANS

| | | |
|---------------------------------|--------------|--------------|
| Outstanding Jan. 1, 1931 | \$195,000.00 | |
| Paid in 1931 | | \$ 35,000.00 |
| Outstanding Dec. 31, 1931 | | 160,000.00 |
| | <hr/> | <hr/> |
| | \$195,000.00 | \$195,000.00 |

POLICE STATION LOANS

| | | |
|---------------------------------|--------------|--------------|
| Outstanding Jan. 1, 1931 | \$ 45,000.00 | |
| Paid in 1931 | | \$ 5,000.00 |
| Outstanding Dec. 31, 1931 | | 40,000.00 |
| | <hr/> | <hr/> |
| | \$ 45,000.00 | \$ 45,000.00 |

FUNDED DEBT, BALANCING ACCOUNT

| | |
|--|--------------|
| Total Debt Jan. 1, 1931 | \$534,500.00 |
| Water Dept. Bonds issued 1931 | 50,000.00 |
| Mun. Lt. Dept. Bonds issued 1931 | 40,000.00 |

Paid in 1931

| | | |
|------------------------------------|--------------|--------------|
| Water Dept. Loans | \$ 8,000.00 | |
| Mun. Lt. Dept. Loans | 13,000.00 | |
| Sewer Dept. Loans | 9,000.00 | |
| Mun. Building Loans | 2,000.00 | |
| Mun. Bldg. and Library Loans | 500.00 | |
| Brown Estate Loans | 500.00 | |
| School Buildings Loans | 35,000.00 | |
| Police Building Loans | 5,000.00 | |
| | | <hr/> |
| Total Payments | \$ 73,000.00 | |
| Total Debt Dec. 31, 1931 | 551,500.00 | |
| | | <hr/> |
| | \$624,500.00 | \$624,500.00 |

FUNDED DEBT MATURING IN 1931

| | | |
|--------------------------------------|--------------|--------------|
| Appropriation | \$ 52,000.00 | |
| Transfer from Water Dept. | 8,000.00 | |
| Transfer from Light Dept. | 13,000.00 | |
| Payment of Loans due in 1931 : | | |
| Sewer Dept. | \$ 9,000.00 | |
| Water Dept. | 8,000.00 | |
| Municipal Light Dept. | 13,000.00 | |
| Municipal Building | 2,000.00 | |
| Brown Estate | 500.00 | |
| Municipal Building and Library | 500.00 | |
| School Buildings | 35,000.00 | |
| Police Building | 5,000.00 | |
| | | <hr/> |
| | \$ 73,000.00 | \$ 73,000.00 |

FUNDED DEBT MATURING IN 1932

| | | |
|--|--------------|-------|
| Sewer Dept. Loans | \$ 9,000.00 | |
| Water Dept. Loans | 16,000.00 | |
| Light Dept. Loans | 15,000.00 | |
| Municipal Building Loans | 2,000.00 | |
| Municipal and Library Building Loans | 500.00 | |
| Brown Estate Loans | 500.00 | |
| School Building Loans | 34,000.00 | |
| Police Building Loan | 5,000.00 | |
| | | <hr/> |
| | \$ 82,000.00 | |

TOWN DEBT **DETAIL OF PAYMENTS BY YEARS**

| Year | Sewer Dept. | Water Dept. | Mun. Lt. Dept. | Police Station | Mun. Bldg. | School Bldg. | Brown Lot | Lib. and Mun. Bldg. Grounds | Total |
|------|--------------|---------------|----------------|----------------|--------------|--------------|-----------|-----------------------------|--------------|
| 1932 | 9,000.00 | 16,000.00 | 15,000.00 | 5,000.00 | 2,000.00 | 34,000.00 | 500.00 | 500.00 | \$ 82,000.00 |
| 1933 | 9,000.00 | 15,000.00 | 12,000.00 | 5,000.00 | 2,000.00 | 34,000.00 | | | 77,000.00 |
| 1934 | 9,000.00 | 13,000.00 | 10,000.00 | 5,000.00 | 2,000.00 | 34,000.00 | | | 73,000.00 |
| 1935 | 8,000.00 | 13,000.00 | 10,000.00 | 5,000.00 | 2,000.00 | 34,000.00 | | | 72,000.00 |
| 1936 | 8,000.00 | 10,000.00 | 7,000.00 | 5,000.00 | 2,000.00 | 24,000.00 | | | 56,000.00 |
| 1937 | 8,000.00 | 6,000.00 | 5,500.00 | 5,000.00 | 2,000.00 | | | | 26,500.00 |
| 1938 | 8,000.00 | 6,000.00 | 5,500.00 | 5,000.00 | | | | | 24,500.00 |
| 1939 | 8,000.00 | 6,000.00 | 5,500.00 | 5,000.00 | | | | | 24,500.00 |
| 1940 | 8,000.00 | 6,000.00 | 4,000.00 | | | | | | 18,000.00 |
| 1941 | 7,000.00 | 6,000.00 | 2,000.00 | | | | | | 15,000.00 |
| 1942 | 7,000.00 | 6,000.00 | 2,000.00 | | | | | | 15,000.00 |
| 1943 | 7,000.00 | 4,000.00 | 2,000.00 | | | | | | 13,000.00 |
| 1944 | 7,000.00 | 4,000.00 | 2,000.00 | | | | | | 13,000.00 |
| 1945 | 6,000.00 | 4,000.00 | 2,000.00 | | | | | | 12,000.00 |
| 1946 | 6,000.00 | 2,000.00 | 2,000.00 | | | | | | 10,000.00 |
| 1947 | 6,000.00 | | 2,000.00 | | | | | | 8,000.00 |
| 1948 | 2,000.00 | | 2,000.00 | | | | | | 4,000.00 |
| 1949 | 2,000.00 | | 2,000.00 | | | | | | 4,000.00 |
| 1950 | | | 2,000.00 | | | | | | 2,000.00 |
| 1951 | | | 2,000.00 | | | | | | 2,000.00 |
| | \$125,000.00 | \$ 117,000.00 | \$ 96,500.00 | \$ 40,000.00 | \$ 12,000.00 | \$160,000.00 | \$ 500.00 | \$ 500.00 | \$551,500.00 |

ACCOUNTING TRUST FUNDS**Balancing Account**

| | | |
|---|--------------|--------------|
| Balance January 1, 1931 | \$216,588.16 | |
| Cemetery Bequests | 2,930.00 | |
| Interest and Income | 9,722.83 | |
| Profit on Securities Sold | 106.25 | |
| Securities Advanced to Par Value | 3,959.50 | |
| Adjustment | 876.92 | |
| Transferred for Hospital Care | | \$ 1,003.13 |
| Payments for Hospital Care | | 5,658.79 |
| Transferred for care of Endowed Cemetery Lots | | 1,811.84 |
| Transferred for cemetery signs | | 42.62 |
| Transferred for Scholarships | | 300.00 |
| Adjustment | | 51.43 |
| Balance Dec. 31, 1931 | | 225,315.85 |
| | <hr/> | <hr/> |
| | \$234,183.66 | \$234,183.66 |

CEMETERY BEQUEST FUND

| | | |
|--|--------------|--------------|
| Balance January 1, 1931 | | \$ 53,729.03 |
| Bequests 1931 | | 2,930.00 |
| Interest and Income, 1931 | | 2,559.54 |
| Transferred for care of Endowed Lots | \$ 1,811.84 | |
| Adjustment | .01 | |
| Balance December 31, 1931 | 57,406.72 | |
| | <hr/> | <hr/> |
| | \$ 59,218.57 | \$ 59,218.57 |

HOSPITAL FUND

| | | |
|--|--------------|--------------|
| Balance January 1, 1931 | | \$157,424.52 |
| Interest and Income | | 6,893.08 |
| Refunds | | 15.00 |
| Profit on Securities Sold | | 106.25 |
| Securities Advanced to Par Value | | 3,959.50 |
| Adjustment | | 25.71 |
| Transfer 1932 | | 876.92 |
| Adjustment | 51.42 | |
| Expended for Hospital Care | 6,661.92 | |
| Balance December 31, 1931 | 162,587.64 | |
| | <hr/> | <hr/> |
| | \$169,300.98 | \$169,300.98 |

GEORGE F. BUCK FUND

| | | |
|-----------------------------------|----------|----------|
| Balance January 1, 1931 | | \$ 42.62 |
| Expended for Cemetery Signs | \$ 42.62 | |
| | <hr/> | <hr/> |
| | \$ 42.62 | \$ 42.62 |

READING HIGH SCHOOL SCHOLARSHIP FUND

| | | |
|---------------------------------|-------------|-------------|
| Balance January 1, 1931 | | \$ 5,391.99 |
| Interest 1931 | | 229.50 |
| Expended for Scholarships | \$ 300.00 | |
| Balance December 31, 1931 | 5,321.49 | |
| | <hr/> | <hr/> |
| | \$ 5,621.49 | \$ 5,621.49 |

STATEMENT OF INVESTED FUNDS

Cemetery Bequest Fund

| | | |
|--|--------------|--------------|
| Balance Dec. 31, 1931 | | \$ 57,406.72 |
| Investments Listed at Par: | | |
| 12,000 U. S. Liberty Bonds, 4th 4¼'s, 1933-1938 | \$ 12,000.00 | |
| 5,000 N. E. Tel. Tel. 1st Mort., 5's Series A 1952 | 5,000.00 | |
| 5,000 No. Pac. Ry. Ref. & Imp., 6's Series B 2047 | 5,000.00 | |
| 4,000 N. Y. C. R. R. Ref. Imp., 5's Series C. 2013 | 4,000.00 | |
| Blackstone Savings Bank, Boston | 5,283.78 | |
| Home Savings Bank, Boston | 4,073.83 | |
| Boston Five Cent Savings Bank | 1,158.63 | |
| Andover Savings Bank | 3,728.23 | |
| Cambridge Savings Bank | 3,646.26 | |
| Essex Savings Bank, Lawrence | 3,746.47 | |
| Mech. Savings Bank, Reading | 9,056.24 | |
| Mech. Savings Bank, Reading | 713.28 | |
| | <hr/> | <hr/> |
| | \$ 57,406.72 | \$ 57,406.72 |

READING HIGH SCHOOL SCHOLARSHIP FUND

| | | |
|--|-------------|-------------|
| Balance Dec. 31, 1931 | | \$ 5,321.49 |
| Investments: | | |
| Andover Savings Bank | \$ 1,000.00 | |
| Charlestown Five Cent Savings Bank | 3,000.00 | |
| Essex Savings Bank, Lawrence | 1,000.00 | |
| First Nat'l Bank, Reading, Sav. Dept. | 321.49 | |
| | <hr/> | <hr/> |
| | \$ 5,321.49 | \$ 5,321.49 |

HOSPITAL FUND

| | | |
|--|-------------|--------------|
| Balance Dec. 31, 1931 | | \$162,587.64 |
| Investments, Securities listed at Par or less: | | |
| \$5,000 Am. Tel.—Tel. Cor. Tr. 5's, 1946 .. | \$ 5,000.00 | |
| \$5,000 Bos. & Albany R. R. Imp. of 1908 4's, 1933 | 5,000.00 | |

| | |
|---|-----------|
| \$5,000 Boston Elevated, 5's, 1937 | 5,000.00 |
| \$5,000 Cent. Hudson Gas and Elec. 5's, 1957 | 5,000.00 |
| \$5,000 Chicago B. & Q. R. R. Co., Ill., Div. "M" 3½'s 1949 | 5,000.00 |
| \$2,000 Conn. Lt. & Power Co., 1st Ref. S. F. 7's 1951 | 2,000.00 |
| \$5,000 Conn. Lt. & Power Co., 1st Ref. S F. 4½'s 1956 | 5,000.00 |
| \$5,000 Consumers' Power Co., 5's 1936 .. | 5,000.00 |
| \$5,000 Consumers' Power Co. 4½'s, 1958 .. | 5,000.00 |
| \$5,000 Consolidated Gas of Baltimore Gen. M. 4½'s, 1954 | 5,000.00 |
| \$5,000 Ill. Cent. R. R. Co., Tr. 4's 1952 .. | 5,000.00 |
| \$5,000 Ill. Cent. R. R. Co., St. Louis Div. 1st M 3's, 1951 | 5,000.00 |
| \$5,000 Kansas City Power & Lt. 4½'s, 1957 .. | 5,000.00 |
| \$5,000 East N. J. Power Co. 1st Mort. 5's, 1959 | 5,000.00 |
| \$5,000 Kings Co. Elec. Lt. & Power 5's 1937 .. | 5,000.00 |
| \$5,000 N. Y. Cent & H. R. R. Deb. 4's, 1934 .. | 5,000.00 |
| \$5,000 N. Y. Tel. Co. 1st Gen. M. 4½'s 1939 .. | 5,000.00 |
| \$5,000 Old Colony R. R. 1st 5's, 1945 | 5,000.00 |
| \$5,000 Pacific Gas & Elec. 4½'s, 1957 .. | 5,000.00 |
| \$5,000 St. Paul, Minn. & Man. Ry. 4's, 1933 .. | 5,000.00 |
| \$5,000 Penn. R. R. Co. Gen'l Mort. 4½'s, 1965 | 5,000.00 |
| American Mfg. Co. Common 72 shares .. | 7,200.00 |
| Home Bleachery & Dye Works, Pfd. 2 Shares | 11.00 |
| Sharp Mfg. Co. Pfd. 55 Shares | 1.00 |
| Sharp Mfg. Co. Com. 20 Shares | 1.00 |
| Andover Savings Bank | 6,213.83 |
| Charlestown Five Cent Savings Bank .. | 6,244.26 |
| Essex Savings Bank, Lawrence | 6,244.22 |
| Mechanics Savings Bank, Reading | 15,430.80 |
| First Nat'l Bank, Reading, Savings Dept. | 19,241.53 |

\$162,587.64 \$162,587.64

I hereby certify that, in accordance with the provisions of Section 53, Chapter 41, of the General Laws, I have audited the accounts of the Commissioners of Trust Funds, have examined the securities and verified bank balances and report the foregoing to be a true and accurate statement, December 31, 1931.

LEON G. BENT, Town Accountant.

BALANCE SHEET DECEMBER 31, 1931

| | | | |
|---|--------------|--|--------------|
| cash in Banks and Office | \$111,697.98 | Temporary Loans | \$250,000.00 |
| Taxes and Assessments Receivable: | | Overlays Reserved for Abatements: | |
| Taxes 1930 | \$ 1,781.19 | For Taxes of 1930 | \$ 1,781.19 |
| Taxes 1931 | 195,785.25 | For Taxes of 1931 | 987.42 |
| Old Age Assistance Tax | 481.00 | | |
| Motor Vehicle Excise Tax 1929 | 22.98 | Overlay Reserve Fund | \$ 2,768.61 |
| Motor Vehicle Excise Tax 1930 | 1,005.72 | Motor Veh. Excise Tax Rev. | 3,592.83 |
| Motor Vehicle Excise Tax 1931 | 3,582.93 | Moth Assessments Revenue | 4,611.63 |
| Moth Assessments, 1930 | 1.25 | Sidewalk & Curb. Ass'ts Rev. .. | 386.25 |
| Moth Assessments, 1931 | 385.00 | Highway Betterment Ass't Rev. | 321.32 |
| Sidewalk & Curb'g Ass'ts, 1931 | 301.62 | Sewer Ass'ts Revenue | 326.38 |
| Interest on same | 19.70 | Sewer Ass'ts Appor'n Rev. | 1,235.03 |
| Sewer Assessments, 1931 | 1,112.77 | Sewer Rentals Revenue | 4,358.10 |
| Sewer Interest | 122.26 | Sidewalk & Curb. Ass'ts Revenue | 390.12 |
| Sewer Ass'ts. Appor'n 1932-1941 | 4,358.10 | Departmental Acc'ts Rec. Rev. .. | 2,181.58 |
| Sewer Rentals | 390.12 | Water Dept. Acc'ts Rec. Rev. .. | 26,482.25 |
| Sidewalk & Curb. Ass'ts Appor'n 1932-1941 | 2,181.58 | Mun. Light Dept. Acc'ts Rec. Rev. | 1,184.38 |
| Highway Betterment Ass'ts Appor'n 1932-1941 | 326.38 | Water Dept. Maintenance Acct. .. | 31,048.17 |
| | | Water Dept. Ext. Vote of 1931 .. | 8,097.49 |
| | | Water Dept. Ext. Pump. Station: | 382.47 |
| | | Vote of 1931 | 3,853.91 |
| | \$211,857.85 | Water Dept. New Stand Pipe Account | .73 |
| | | Mun. Light Dept. Maint. Acct. ... | 2,197.85 |
| | \$ 26,482.25 | Mun. Light Dept. Construc. Acct. | |
| | 1,184.38 | Vote of 1930 | 2,051.37 |
| | 31,048.17 | | |
| Departmental Accts., Receivable .. | | | |
| Water Dept. Accts. Receivable | | | |
| Mun. Light Dept. Accts. Receivable | | | |

BALANCE SHEET DECEMBER 31, 1931

| | | | |
|--------------------------------------|-----------|---|-------------|
| Water Dept. Cash | 100.00 | Sewer Dept. Maint. & Construc. Account | 9,032.74 |
| Mun. Light Dept. Cash | 250.00 | Sewer Dept. House Connec. Acct. | 148.82 |
| Public Library Cash | 15.00 | Cemetery Lots, Sales and Bequests | 200.00 |
| Overdraft | 12.01 | Rec. Revenue | 175.96 |
| Tax Titles held by Town | 12,945.30 | Smith-Hughes Fund | 38.23 |
| Cemetery Lots, Deferred payments | 112.50 | George Reed Fund | 2,989.09 |
| Cemetery Bequests, De'ferred paym'ts | 87.50 | Cemetery Reserve Fund | |
| Hospital Fund, Transfer Acct. | 876.92 | Appropriation Bal. forward to '32: | |
| | | Junior High Sch. Bldg. .. \$ | 101.66 |
| | | World War Memorial | 4,069.82 |
| | | Land Damages | 50.00 |
| | | Athletic Field Survey | 623.85 |
| | | Drainage System Construc. .. | 1,006.44 |
| | | Drainage System Survey | 72.50 |
| | | Birch Meadow Special Acct. | 96.87 |
| | | Police Building | 2.61 |
| | | Land Damage, Hancock st. Ext. ..\$ | 100.00 |
| | | | |
| | | Special Unemployment Fund | \$ 6,123.75 |
| | | Special Unemployment Fund ... | \$ 302.16 |
| | | Premium Account | 569.94 |
| | | Sale Land | 296.34 |
| | | Public Lib. Spec. Acct. | 748.25 |
| | | Tax Titles Revenue | 22.60 |
| | | | 12,945.30 |

Excess and Deficiency Acct.

17,606.21

\$396,669.86

\$396,669.86

DEBT ACCOUNTS

Net Funded Debt

\$551,500.00

Sewer Construction Loans

\$125,000.00

Water Dept. Loans

117,000.00

Municipal Light Dept. Loans

96,500.00

Municipal Building Loans

12,000.00

Mun. Bldg. & Library Loans

500.00

Brown Estate Loans

500.00

School Building Loans

160,000.00

Police Station

40,000.00

\$551,500.00

\$551,500.00

TRUST FUNDS

Trust Funds, Cash and Securities ..

\$225,315.85

Cemetery Bequest Fund

57,406.72

Hospital Fund

162,587.64

Reading H. S. Sch. Fund

5,321.49

\$225,315.85

\$225,315.85

REPORT OF COLLECTOR OF TAXES

Taxes 1928

| | | | | |
|-------------------------------------|----|-------|----|-------|
| Uncollected December 31, 1930 | \$ | 16.25 | | |
| Abated | | | \$ | 16.25 |
| | \$ | 16.25 | \$ | 16.25 |

Taxes and Assessments 1929

| | | | | |
|-------------------------------------|----|----------|----|----------|
| Uncollected December 31, 1930 | \$ | 2,224.14 | | |
| Interest collected | | 226.70 | | |
| Paid Treasurer | | | \$ | 1,878.29 |
| Abated | | | | 549.57 |
| Uncollected December 31, 1931 | | | | 22.98 |
| | \$ | 2,450.84 | \$ | 2,450.84 |

Taxes and Assessments 1930

| | | | | |
|---|--------------|--|--------------|--|
| Uncollected December 31, 1930 | \$185,192.18 | | | |
| Additional commitments | 15.13 | | | |
| Transferred from Tax Title to Moth Account .. | 1.25 | | | |
| Refunds account taxes | 65.25 | | | |
| Interest collected | 7,125.39 | | | |
| Paid Treasurer | | | \$186,171.97 | |
| Abated | | | 826.49 | |
| Transferred to Tax Title Account | | | 2,612.58 | |
| Uncollected December 31, 1931 | | | 2,788.16 | |
| | \$192,399.20 | | \$192,399.20 | |

Taxes and Assessments 1931

| | | | | |
|--|--------------|--|--------------|--|
| General Tax Warrant | \$560,685.80 | | | |
| Interest collected | 356.35 | | | |
| Refunds account of taxes | 478.89 | | | |
| Overpaid Treasurer | 2.00 | | | |
| Paid Treasurer | | | \$352,532.93 | |
| Abated | | | 2,843.97 | |
| Transferred to Tax Title Account | | | 4,355.61 | |
| Uncollected December 31, 1931 | | | 201,790.53 | |
| | \$561,523.04 | | \$561,523.04 | |

Sewer Rentals

| | | | | |
|---|----|----------|----|----------|
| Uncollected December 31, 1930 | \$ | 566.10 | | |
| Commitments January and July 1931 | | 9,450.86 | | |
| Interest collected | | 45.75 | | |
| Paid Treasurer | | | \$ | 9,471.87 |

| | |
|--|--------|
| Abated | 39.32 |
| Transferred to Tax Title Account | 161.40 |
| Uncollected December 31, 1931 | 390.12 |

| | |
|--------------|--------------|
| \$ 10,062.71 | \$ 10,062.71 |
|--------------|--------------|

Sewer Betterment

| | | |
|--|-------------|-----------|
| Commitments Feb., Sept. and Nov. | \$ 2,518.91 | |
| Interest collected | 1.87 | |
| Paid Treasurer | | \$ 499.82 |
| Advanced payment apportioned sewer | | 103.24 |
| Transferred to deferred payments | | 1,917.72 |

| | |
|-------------|-------------|
| \$ 2,520.78 | \$ 2,520.78 |
|-------------|-------------|

| | | |
|--|-----------|-----------|
| Advanced payment apportioned sewer | \$ 126.73 | |
| Interest collected | 4.01 | |
| Advanced payment unapportioned sewer | 239.12 | |
| Paid Treasurer | | \$ 369.86 |

| | |
|-----------|-----------|
| \$ 369.86 | \$ 369.86 |
|-----------|-----------|

Highway Betterment

| | | |
|--|-----------|----------|
| Commitments October 1931 | \$ 391.71 | |
| Paid Treasurer | | \$ 57.75 |
| Abatement | | 7.58 |
| Transferred to deferred payments | | 326.38 |

| | |
|-----------|-----------|
| \$ 391.71 | \$ 391.71 |
|-----------|-----------|

Sidewalk and Curbing Betterment

| | | |
|---|-------------|-----------|
| Commitments Feb., July and November | \$ 2,722.03 | |
| Interest collected | 1.27 | |
| Paid Treasurer | | \$ 288.01 |
| Transferred to deferred payments | | 2,435.29 |

| | |
|-------------|-------------|
| \$ 2,723.30 | \$ 2,723.30 |
|-------------|-------------|

Recapitulation

Total receipts from taxes and assessments:

| | |
|--|--------------|
| Taxes | \$506,979.98 |
| Sewer assessments | 12,456.59 |
| Sidewalk and curbing assessments | 628.42 |
| Highway assessments | 57.75 |
| Motor Vehicle assessments | 23,489.66 |

| | | |
|--|----------|--------------|
| Interest | 7,761.34 | |
| Refunds, etc. | 68.00 | |
| Redemption of property | 170.30 | |
| | | <hr/> |
| | | \$551,612.04 |
| Paid to the Treasurer as per Treasurer's | | |
| Receipts | | \$551,612.04 |
| Grace V. Viall, Collector of Taxes. | | |

REPORT OF TREASURER

For the year ended December 31, 1931.

The transactions in the General Cash Account, in summary form, were as follows:

| | |
|-------------------------------|--------------|
| Balance January 1, 1931 | \$ 90,838.69 |
|-------------------------------|--------------|

Receipts:

| | |
|---|--------------|
| Grace V. Viall, Collector | \$551,612.04 |
| Municipal Light Department | 319,717.87 |
| Water Department | 58,052.04 |
| Sewer Department: Guarantee Deposits .. | 1,803.77 |
| School Department | 9,708.49 |
| Cemetery Department | 7,789.19 |
| Tree Warden and Moth Department | 1,020.75 |
| Other Departmental Receipts | 11,346.88 |
| Temporary Loans in Anticipation of Rev. | 325,000.00 |
| Bond Issues | 90,000.00 |
| Bond Premium and Interest | 861.00 |
| Trust Funds Income | 6,172.50 |
| Trust Funds Transfers | 5,228.69 |
| Interest on Deposits | 962.72 |
| Redemption of Property: Taxes, interest and costs | 2,717.45 |
| Commonwealth of Massachusetts: Taxes .. | 71,239.78 |
| Municipal Light Dept.: Returned loan | 13,975.81 |
| Commonwealth and County: Salem Street .. | 8,000.00 |
| Miscellaneous Receipts | 22,392.01 |

| | |
|----------------------|-----------------|
| Total Receipts | \$ 1,507,600.99 |
|----------------------|-----------------|

| | |
|--|-----------------------|
| | <hr/> \$ 1,598,439.68 |
|--|-----------------------|

Disbursements :

| | |
|------------------------------------|--------------|
| Temporary Loans | \$275,000.00 |
| Notes and Bonds, Funded Debt | 73,000.00 |
| Interest on Funded Debt | 23,320.00 |
| Discount on Notes | 4,828.84 |
| State Taxes and Assessments | 24,539.07 |
| County Taxes | 29,136.96 |
| Other Disbursements | 1,056,916.83 |

| | |
|---------------------------|----------------|
| Total Disbursements | \$1,486,741.70 |
|---------------------------|----------------|

| | |
|---------------------------------|--------------|
| Balance December 31, 1931 | \$111,697.98 |
|---------------------------------|--------------|

FUNDED DEBT

| | |
|--|--------------|
| Outstanding January 1, 1931 | \$534,500.00 |
| Bonds Issued in 1931 at 3½% interest | 90,000.00 |

\$624,500.00

| | |
|-------------------------------------|------------|
| Bonds and Notes Paid in 1931 | 73,000.00 |
| Outstanding December 31, 1931 | 551,500.00 |

\$624,500.00

NOTES ISSUED IN ANTICIPATION OF REVENUE

| | |
|-----------------------------------|--------------|
| Outstanding January 1, 1931 | \$200,000.00 |
| Notes Issued in 1931 | 325,000.00 |

\$525,000.00

| | |
|-------------------------------------|--------------|
| Notes Paid in 1931 | \$275,000.00 |
| Outstanding December 31, 1931 | 250,000.00 |

\$525,000.00

\$100,000.00 of the amount borrowed in anticipation of revenue was at the rate of 1.8% which is believed to be the lowest rate at which the Town has ever borrowed money. The highest rate paid by the Town in 1931 on such loans was 3½%.

A more detailed statement of receipts and disbursements and a statement of the Trust Funds is presented in the report of the Town Accountant.

PRESTON F. NICHOLS, Treasurer.

TREE WARDEN'S REPORT 1931

To the Honorable Board of Selectmen:
Gentlemen:

During the past year I have planted about three hundred trees on the roadside, and have also done the usual tree trimming during September and October. The town was infested by a large number of web worms and we are prepared to spray for them late in the season of the present year.

Respectfully submitted,

HENRY M. DONEGAN,
Tree Warden and Moth Supt.

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